CONTRACTING NEWS

Of Special Interest to Engineers, Contractors, Builders and Manufacturers of Engineering and Building Supplies

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

WATER-WORKS

Proposed Work

Conn., Putnam—City making plans extending and improving water system. A Hawkins, G. H. Gilpatric., H. J. Smith, Bd. Water Comrs. Hanscom Constr. Co., 70 Kilby St., Boston, engr.

N. Y., Westfield—Village plans election to vote on $80,000 bonds to rebuild water system. J. A. Riely, clk.

N. J., Flanders—Boro. Officials plan water system. W. H. Grove, head of com.

N. J., Pequannock—Township Comrs. plan installation of water system for fire service. About $18,000.

Pa., Dallastown—Citizens voted $39,600 bonds to build water system.

N. C., Winston-Salem—City voted $125,000 bonds to extend water system.

S. C., Charleston—Citizens voted to purchase plant Charleston Light and Water Co. for $1,360,000, also authorized additional bond issue of $140,000 for improvements to same. J. M. Worthen, supt.

La., Monroe—City voted $612,000 bonds to build filter plant, improve light plant, install sewerage and drainage system and erect 2 schools.

Tenn., Manchester—City election soon to vote on $27,500 bonds for water system.

O., Bradford—Village voted $25,000 bonds to build new water-works also extend mains. O. H. Preston, village engr.

O., East Liverpool—T. Doherty, Ser. Dir. estimates cost of laying water mains in Oakwood and Northside Ave., Lisbon Rd. and other streets in Pleasant Heights Dist. at $19,555.

O., Lorain—Council voted $90,000 bonds for extensions and improvements to water-works.

Mich., Dundee—See "Water-Works."

Mich., Holland—See "Reinforced-Concrete."

Mich., Jackson—Citizens will soon vote on $40,000 bonds for water-works improvements and $40,000 for storm sewers.

Ill., Farmington—City election Apr. 17 to vote on $20,000 bonds to improve water system. E. Bennett, supt.

Ill., Metropolis—Bonds for $82,000 voted for electric-light and water-works improvements and extensions.

Wis., Osceola—City making plans water and sanitary sewer system. About $35,000. A. Ladd, city clk.

Wis., Stratford—City planning bond issue of $16,000 for water-works. W. G. Kirchoffer, Madison, engr.

Ia., Monroe—City defeated $30,000 bond issue for water system.

Ia., Pisgah—City voted $140,000 bonds for water and light plant.

Minn., St. James—City making plans 80-ft. water tower and tank. C. L. Larson, City Clk. J. G. Robertson, 2542 University Ave., St. Paul, engr.

Minn., Wabasha—City making plans laying water mains in portion Campbell St. About $30,000. J. M. Schonweiler, city rec. J. F. Druar, 312 Commercial Bldg., St. Paul, engr.

Neb., Scottsbluffs—City will soon let contract extension to water-works involving about 23,122 ft. 4- to 8-in. c.i. pipe; cost $31,382. O. F. Finley, city engr. A. L. Selzer, engr. in charge.

N. D., Berthold—City plans to build water system including 100,000-gal. tank. About $12,000. T. R. Arnold, Great Falls, Mont., engr.

Wyo., Casper—City plans election to vote on $75,000 bonds to extend water mains.

Tex., Corsicana—City plans to vote on $50,000 bonds for water system.

Okla., Frederick—City voted $35,000 bonds for extensions and improvements to water-works, $35,000 to purchase and improve private electric-light plant and $30,000 for storm sewers. J. L. Morrow, supt. W. W.

Idaho, Twin Falls—City election Apr. 24, to vote on $420,000 bonds for installing and improving supply and distribution system, reservoir and filtration plant; also $176,000 for pipe line from Rock Creek to present system. W. Wyatt, supt.

Wash., Othello—City plans improvements to water-works consisting of new engine, extension of water mains and auxiliary tank for water storage. Project also includes electric-light plant.

N. S., Bay Shore—Canadian Pacific Ry. plans to build 40,000-gal. water tank. E. N. Bender, Montreal, purch. agt.

Que., St. Hyacinthe—Council will soon let contract filter system.

Ont., Islington—City made plans water system including pumps, filters, tanks and 3-mi. mains. About $82,000. J. Louden & Hertzberg, Excelsior Life Bldg., Toronto, Engr.

Ont., Oshawa—Town Council considering using water from stream instead of pumping from lake; cost about $150,000. W. G. Worden, town engr.

Ont., Toronto—City will install additional pump and motor at the Riverdale Pumping station. Cost $25,000. R. C. Harris, comr. of wks.

Bids Desired

N. J., Trenton—Until Apr. 11, by city comm. for one 8-in. double-suction impeller horizontal centrifugal type pump, capacity 2,000,000 gal. per 24 hours. Leon D. Hirsch, city clk.

Pa., West Chester—Until Apr. 25 by Boro. building pumping plant and installing sewers. About $15,000. N. R. Rambo, co. surv.

O., Celina—Until Apr. 17 J. M. Minter, clk., for extension to water-works, cost $12,000.

O., Cincinnati—See item under "Streets and Roads."

Mich., Holland—Until Apr. 16, by Bd. Pub. Wks. 1,000,000-gal concrete reservoir. R. B. Champion, supt.; advertised in this issue.

Cal., Coalinga—Until Apr. 16 by G. T. Walker, city clk., furnishing and installing elevated steel water tank. F. G. Dessery, 514 Central Bldg., Los Angeles, consult. engr.

Prices and Contracts Awarded

★Indicates award of contract.

★**Conn., Norwalk**—City let contract addition to filtration plant to Suburban Engineering Co., 15 West 38th St., New York.

★**N. Y., Canton**—Bd. Water Comrs. let contract water system to H. K. Corbin Co., 30 Church St., New York, $72,000; c.i. pipe for same to Cast Iron Pipe and Foundry Co., at $40 per ton.

★**N. Y., Geneva**—City let contract steel and concrete addition to filtration plant to J. H. Ripley, 23 West 57th St., New York, $26,298.

★**N. C., Belhaven**—City let contract electric-light plant, water and sewer systems to J. B. McCrary Co., Atlanta, Ga. About $60,000.

★**Ky., Murray**—City let contract to La Verne Supply Co., for water-works improvements and electric-light plant. About $17,750.

Mich., Cadillac—City will build 1-story, 28 x 30-ft. pumping station by day labor. About $25,000. T. V. Stevens, city engr.

★**Neb., Imperial**—City let contract to P. N. Krause, Spencer, Ia., at $31,800, for water-works including well, pump and pumping house.

★**Cal., La Mesa**—Cuyamaca Water Co. let contract Eastwood multiple arch concrete dam impounding capacity 1,828,000 gal., to Sharp & Fellows Construction Co. About $100,000. J. S. Eastwood, des. engr., in charge construction.

★**Ont., Tecumseh**—Eau Claire Water-Works Co., Ltd., let contract well and intake to W. Newman, c/o R. W. Code, Bd. Trade Bldg., Windsor; pipe laying to E. Hill Bd. Trade Bldg., Windsor; supplying pipe, pumps, motor and installation of water-works system to Canadian Allis-Chalmers, Ltd., 212 King St., W. Toronto. About $20,000.

SEWERS

Proposed Work

Mass., Rockland—City plans to install sewerage system and disposal plant near Concord St. About $225,000. W. Worthington, Dedham, engr.

Mass., Stoughton—Town voted $75,000 bonds to install sewerage system.

N. Y., Niagara Falls—Council rejected bids received Mar. 27 sewer in upper milling district. New bids. About $100,000. W. B. Bennett, city engr.

N. Y., Syracuse—Council plans constructing sewer in Grand Ave. About $20,000. H. A. Allen, city engr.

N. J., Dover—City applied to State Bd. Health for permission to build sewerage system and sewage-disposal plant. Cost $200,000. E. J. Jenkins, city engr.

N. J., Millville—Dept. Parks and Pub. Property plans to install storm sewer that will carry off surface water in the eastern section of city. N. B. Wade, city engr. made plans.

N. J., Paulsboro—Boro Council making plans storm and sanitary sewerage system with treatment works. Remington & Vosbury, 6th and Market St., Camden, engrs.

N. J., Pitman—Borough authorized $50,000 bond issue for sewer system. Purchase of Pitman Water Co.'s plant planned, including improvements and extensions. Cost about $48,000.

Pa., Carbondale—City made plans sewage-disposal plant. About $60,000. C. Potts, 30 Church St., New York, engr.

Pa., Nanticoke—A. Starr, boro. engr., making revised plans sewer system.

Pa., West Chester—See "Water-Works."

Pa., Williamsport—See "Streets and Roads."

Pa., Sayre—City soon receives bids installing sewerage system and disposal plant. About $40,000. R. R. Fernow, Weightman Bldg., Phila., engr.

N. C., Belhaven—See "Water-Works."

S. C., Chesterfield—See "Water-Works."

S. C., Columbia—See "Streets and Roads."

Ga., Cairo—City voted $28,000 bonds for completion of sewerage system.

Ga., Swainsboro—Election to be held Apr. 24 to vote on $34,000 bonds for water-works and $16,000 for sewers.

Ala., Gadsden—City considering plans extending sewer system. About $25,000. E. Smith, city engr.

La., Monroe—See "Water-Works."

O., Barberton—City voted $250,000 bonds to install sewerage system and disposal plant. H. W. Alcorn, city engr.

O., Cleveland—City planning improvements to sewage-disposal plant consisting of completion of 58th St. plant, $500,000; west side sewers, $500,000; and other improvements totaling $2,300,000. R. Hoffman, city engr.

O., Cuyahoga Falls—City rejected bids installing about 5-mi. mains and lateral sanitary sewers including 12,000-cu.yd. excavation, 28,000-cu.yd. rock excavation, 24,000 lin.ft. vitrified pipe, 61 tons cast iron pipe, 90 manholes and 140-cu.yd. concrete. New bids. W. F. Williston, clk.

O., Mansfield—Town planning election to vote on $175,000 bonds for sewerage system.

O., Portsmouth—City plans bond issue of $10,000 for sanitary sewer laterals. P. T. Harper, city engr.

Ill., Mason City—City election held Apr. 17 to vote on $20,000 bonds for septic tank and outlet sewer for proposed sewer and drainage system.

Mich., Hamtramck—City voted $75,000 bonds to install sewerage system. J. Schultheis, city clk.

Mich., Muskegon Heights—City voted $110,000 bonds to install sewers and sewage-disposal plant. Hoad & Decker, Ann Arbor, engrs. Noted Feb. 8.

Ia., Davenport—City plans to build storm drain to be known as Rock Island St. storm drain system from 18th St. to Duck Creek, will also build storm drain in portion Valley St. About $60,000. T. Hooper, supt.

Ia., Sioux City—City plans to install sanitary sewer system. About $20,000. T. H. Johnson, city engr.

Minn., Atwater—City voted $24,000 bonds to install sewer.

Minn., Caledonia—Village plans sewerage system. D. C. Merlo, clk. J. F. Druar, engr., 312 Commercial Bldg., St. Paul, making surveys.

Minn., St. Paul—Council approved plans installing sewers in Charlton, Wyoming, Winona, Bradley and Clermont St. O. Claussen, city engr.

Kan., Wichita—City plans to build sewer No. 20. About $200,000. B. Wells, city engr.

S. D., Aberdeen—City to hold election Apr. 17 to vote on $200,000 bonds to install storm sewer system. F. Le Cocq, city engr.

S. D., Madison—City election Apr. 17 to vote on $50,000 bonds for improving sewerage system.

Tex., Austin—Election will soon be held to vote on $179,000 bonds for sewage-disposal plant. M. C. Wellborn, city engr.

Tex., Port Arthur—City Comm. adopted plans for extension of sewerage system. Bids on same, also for laying water mains will soon be asked. Work to be handled with recent bond issue of $180,000. C. L. Scherer, city engr.

Tex., Waco—See "Streets and Roads."

Okla., Alva—City soon receives bids installing sewers in Dist. Nos. 5, 6, 7, 8 and 9.

Sewers (Continued)

Okla., Enid—City making plans disposal plant including screening chamber, filter beds and about 2500-ft. 18-in. outfall sewer. Estimate $15,000. B. F. Lewis, engr.

Okla., Kingstown—Citizens planning bond issue for sewerage system.

Okla., Oklahoma—City Engineering Dept. made plans intercepting sewer to be built through southern section of city, about 4-mi. long, 4½-ft. diam., inside, at its beginning and enlarged to 7-ft. toward its mouth. Bonds for $200,000 voted for work. G. V. McClure, city engr.

Idaho, Nampa—City plans new sewer improvement district. About $33,000.

Idaho, Twin Falls—See "Water-Works."

Ariz., Globe—City is having plans prepared by Benham Engineering Co., Colcord Bldg., Oklahoma, to install sanitary mains and lateral sewer system, storm sewer, extend water-works and street paving. Cost about $750,000. Election soon to vote on bonds for same.

Ariz., Jerome—Citizens voted $40,000 bonds Mar. 20 for sewer system.

Wash., Ruston—Council plans to install trunk, sanitary and subsewers in Park Ave. J. P. Garrison, clk.

Cal., Fresno—C. C. Van Valkenburgh, Jr., city engr., making plans installing 64 blocks sewers in Arlington Heights, work includes, 30,000 ft. 6-in. pipe and 8000 ft. 8-in. pipe.

Cal., Los Angeles—City plans to install vitrified pipe sanitary sewer portion Woodlawn Ave., H. Hamlin, city engr.

Cal., Santa Barbara—State Bd. Health approved plans outfall sewer system to be installed in city involving 1500 ft. 33-in., 1000 ft. 30-in., 2500 ft. 20-in., 1500 ft. 16-in., 1000 ft. 12-in. and 1800 ft. 10-in. pipe, 15 manholes and disposal tanks. Election will soon be held to vote on $85,000 bonds for work. A. C. Hall, city clk. Olmsted & Gillelen, 1112 Hollingsworth Bldg., Los Angeles, engrs.

Cal., Stockton—City will soon let contract for building outfall sewer about 13,020 lin.ft. 36-in. redwood stave pipe, and 4614 lin.ft. vitr. clay pipe, cost, $56,622.

Bids Desired

Pa., Hanover—Until Apr. 23 by F. C. Rowe, secy. twp. comrs., 731 Hazel St., for sewage disposal works including Imhoff tank, sludge beds, sewage pumping stations and appurtenances. Boyle & Howe, twp. engrs. Clyde Potts, 30 Church St., New York, engr.

N. C., Beaufort—Until Apr. 20 for about 5 miles of sewers with electric pumping station. C. H. Bushall, city clk.

Minn., Winona—Until Apr. 23, for storm water sewer on Olmstead St. including inlets, manholes, connections, headwall and appurtenances.

Mont., Bozeman—Until Apr. 19, for 924 lin.ft. storm sewers 19- to 18-in. and 4200 sq.yd. standard bitulithic pavement. C. A. Spieth, city clk.

Cal., Oakland—Until Apr. 19 by L. W. Cummings, city clk., installing sewer in Wilbur St. P. E. Brown, city engr.

Ont., Toronto—Until Apr. 17 by city installing sewer portion Pape Ave.

Prices and Contracts Awarded

★Indicates award of contract.

★**N. J., Newark**—Bd. Works let contract Delavan Ave. sewer to F. D. Leffingwell, 469 Bloomfield Ave., Montclair, $33,393; Blanch St. sewer, Pasquale Mauriello, 122 Center St., Orange, $9417. Noted Apr. 5.

★**W. Va., Wellsburg**—City let contract to B. O. Cresap, Wellsburg, at $17,268 for trunk sewer.

★**W. Va., Wheeling**—City let contract installing trunk sewer to B. O. Cresop, Wheeling, $17,-268.

★**O., Coshocton**—City let contract sewers on 18 streets to Henderson Bros., Coshocton, about $46,000.

O., Leetonia—City received bids Mar. 19 for sewage-disposal plant from Wm. H. Ralston, Mt. Vernon, $18,406. J. C. Devine, Alliance, $21,403; Frank George, Youngstown, intercepting sewer only $19,419. C. E. Beard, engr.

★**Mich., Ann Arbor**—City let contract to Gessner Co., Toledo, at $25,918 for laying 15-in. water mains.

★**Ill., Decatur**—City let contract to Arthur Birt, at $41,920, for Staley Wabash sewer.

★**Ill., Oak Park**—City let contract sewer extension No. 499 to T. H. Iglehart, 205 South La Salle St., Chicago, $21,836.

★**Ia., Newton**—Council let contract to Turner Co., Des Moines, at $49,498 for laying 7 miles of sewers; Ward & Weightman, Sioux City, at $29,500 for 2 disposal plants.

★**Ia., Tama**—City let contract installing sewer to T. Carey, 106 Weston Bldg., Clinton, $11,000.

★**Ia., Wilton Center**—(Official)—City let contract mains and laterals for sewer system to Independent Constr. Co., Davenport, $23,429; disposal plant to Tschirgi & Sons, Cedar Rapids, $12,008.

★**Minn., Hopkins**—City let contract to Wm. Danforth, Germania Life Bldg., St. Paul at $36,500, for sewage system and disposal tank.

★**Minn., West Minneapolis**—(P. O. Hopkins) Village let contract sewerage system to W. Danforth, 707 Germania Life Bldg., St. Paul, $36,500.

★**Kan., Neodesha**—City let contract improving sewerage system to Mercer & Underwood, c/o J. J. Underwood, Springfield, Mo., $32,455.

★**Kan., Topeka**—City let contract to A. R. Stimson, Topeka, at about $30,000 for constructing 7-ft. circular sewer.

★**Neb., Fairbury**—City let contract sewer in storm and drainage dist. No. 4 to Roberts Constr. Co., Lincoln, $11,947.

★**Neb., Omaha**—City let contract installing Saddle Creek storm sewer to J. Jensen, 2421 Wirt St. About $16,640.

★**Idaho, Rupert**—City let contract sewer system to R. M. Bardson & Co., Pocatello, $74,741. Noted Apr. 5.

★**N. S., Halifax**—City let contract sewers to Cook Construction Co., Ltd., 335 Queenpool St. $70,000.

STRUCTURAL STEEL WORK

Proposed Work

Mass., Boston—City plans rebuilding Brookline Ave. bridge over Boston & Maine R.R. tracks leading to Fenway Park. About $55,000. A. B. Corthell, Boston, ch. engr.

Pa., West Chester—County and Phœnixville-Jefferson Traction Co., recently organized, plan bridge across Perkiomen Creek.

Tenn., Morristown—Southern R.R. plans replacing frame trestles between Morristown and Salisbury, N. C., distance of 228 mi. with steel and concrete structures. B. Hermann, Wash., D. C., ch. engr.

Ky., Marion—County defeated $100,000 bonds to build bridges and roads.

O., Hamilton—City plans bridge on Black St. F. E. Weaver, city engr.

O., Troy—County comrs. approved plans and estimates of L. P. Knoop, county engr., bridges as follows: No. 43 on Rd. 216; No. 14 Rd. 487; No. 16 Rd. 164; No. 10 Rd. 198; No. 8 Rd. 40; No. 17 Rd. 63; No. 29 Rd. 236; No. 16 Rd. 236; No. 6 Rd. 17 and No. 10 on Rd. 46.

Ind., Mishawaka—County Comrs. soon let contract bridge over St. Joseph River on Joseph St. About $85,000.

Ill., Pontiac—County voted $40,000 bonds to build new Mill St. bridge. About $46,220. R. W. Osborn, co. highway supt.

Ill., Urbana—Champaign and Vermillion Counties plan bridge over Middlefork of Vermillion River near county line. About $18,000. Address Clk. Champaign County, Urbana.

Ia., Boone—Minneapolis & St. Louis R.R. plans building viaduct. About $29,000. R. G. Kenly, Minneapolis, ch. engr.

Ia., Clinton—Bd. Supervs. plans 2 additional truss bridges.

Minn., Austin—County sold $200,000 bonds to build bridges.

Mo., Kansas City—H. Bryant, 601 R. A. Long Bldg., making plans 8- to 12-story, 97 x 127-ft., steel frame and rein.-con. store and theater building.

Tex., Center Point—City plans building 2 bridges over Guadlupe River.

Tex., Ft. Worth—County plans 2 bridges over Clear Fork of Trinity River at 2 points on road west of Ft. Worth. J. Childers, coun.

Idaho—State Senate passed bill appropriating $50,000 to build 5 steel bridges from 400 to 800 ft. long, over Snake River between Oregon State line and Bruneau bridge, about 125 mi.; estimate $150,000; one-third of which will be paid by State and one-third by counties which bridges connect. Address State Surv., Boise.

Wash., Mt. Vernon—W. E. Costello, co. engr., making plans improving Mt. Vernon bridge with 220-ft. steel span and piers. About $23,000. W. R. Arges, co. aud.

Cal., Colusa—Bd. supervs. plans rebuilding bridge between Colusa and Williams under supervision of State Highway Comn. About $20,000.

Cal., Fresno—Einstein Investment Co. plans steel frame and rein.-con., 75 x 150-ft. theater, Van Ness Ave. About $125,000. Coates & Travers, arch., making plans.

Cal., Santa Barbara—Bd. supervs. plans building Arroyo Hond and Refugio bridges. About $50,000.

Bids Desired

N. J., Elizabeth—(Official)—Until Apr. 23 new strauss bascule bridge over Elizabeth River, South Front St. Former bids rejected. J. L. Bauer, county engr.

Pa., Dowington—Until May 1 building stone bridge. About $22,000. N. R. Rambo, West Chester, co. surv.

S. C., Camden—Until about May 1 by M. C. West, superv., building 600- or 700-ft. rein.-con. bridge near Camden, steel with concrete piers. About $60,000.

Ill., Springfield—Until Apr. 11 by State Highway Comn. for building Indian Ford Bridge, about 2 mi. from London Mills, 1 140-ft. steel span and 1 35-ft. rein.-con. span, 18-ft. roadway, work includes 128,430 ft. structural steel and 21,790 lb. rein.-con. About $14,680.

Kan., Leavenworth—Until Apr. 20 by J. Vorhees, county clk., building Endora Bridge.

Utah., Salt Lake City—(Official)—Until Apr. 16 by County Comrs. building 3 steel bridges over Little Cottonwood Creek, 2 in canyon and 1 on Gold City Rd. L. Hanchett, chn. bd. co. comrs.

Prices and Contracts Awarded

★Indicates award of contract.

★**Ky., Somerset**—County let contracts superstructures, 2 steel bridges over Pitman Creek as follows: to Virginia Bridge and Iron Co., Roanoke, Va.; substructures to Builders' Supply Co., Lexington, at $14,450 and $13,935 respectively.

REINFORCED CONCRETE

Proposed Work

N. Y., Camillus—Camillus Cutlery Co. making plans 3-story, 50 x 100-ft. rein.-con. factory. M. Mayer, pres. R. J. Reidpath & Son, Builders' Exchange, Buffalo, arch.

N. Y., New York—(Manhattan)—New York Edison Co., 149 East 26th St., having plans made 50 x 130-ft. rein.-con. building, 179th St. and Monterey Ave. About $100,000.

N. J., Elm—Central R.R. of New Jersey plans building concrete abutments and wing walls to bridge on Southern division. A. E. Owen, 143 Liberty St., New York, ch. engr.

Penn., Harrisburg—See "Structural Steel."

Va., Clifton Forge—Supt. Pub. Wks. soon receives bids 2-rein.-con. bridges, 240- and 161-ft. long respectively.

N. C., Rocky Mount—(Official)—National Bank of Rocky Mount has retained Milburn, Heister & Co., archt., Union Savings Bank Bldg., Wash., D. C., to make plans rein.-con. bank. About $100,000.

S. C., Camden—See "Structural Steel."

S. C., Newberry—Exchange Bank made plans 5-story, 58 x 60-ft., concrete bank and office building. About $50,000. Summer & Hemphill, Greenwood, arch.

Fla., Sarasota—H. L. Higel plans rebuilding Higelhurst Hotel, 3-story, concrete; also improve Siesta Hotel, about $50,000.

Tenn., Morristown—See "Structural Steel."

Mich., Dundee—See "Water-Works."

Mich., Holland—Contract will soon be let by Dept. Pub. Wks. for constructing 1,000,000 gal. capacity rein.-con. reservoir; cost $17,000. S. Williams, Ann Arbor, engr.

Illinois—See "Structural Steel."

Mont., Miles City—W. Armington and W. A. Clark, Billings, plan rein.-con. flour mill. About $60,000.

Mo., Kansas City—See "Structural Steel."

Okla., Waurika—County making plans concrete bridges over large streams. W. P. Harwell, Waurika, county comr. P. Emery, Topeka, Kan., engr.

Nev., Fallon—Bd. Educ. plans rein.-con. high school. About $75,000. Wilson & Eager, American National Bank Bldg., Monrovia, Cal., arch., making plans.

Ariz., Flagstaff—D. Babbitt and T. A. Riordan plan 4-story, 98 x 134-ft. rein.-con. hotel, store, and theater, Aspen Ave. and San Francisco St. Coxhead & Kennedy, arch., making plans.

Wash., Nisqually—J. Allen, state highway comr., making plans rein.-con. bridge, 275 ft. long, including approaches, over Nisqually River, on Pacific Highway. About $30,000.

Wash., Olympia—R. F. Wood, city engr., making plans concrete bridge on West 4th St. over Deschutes River. About $100,000.

Cal., Beverly Hills— Beverly Hills Hotel making plans 5-story rein.-con. frame and plaster addition. About $100,000. S. I. Anderson, mgr. W. J. Dodd and W. Richards, 609 Brockman Bldg., Los Angeles, archt. and engr.

Cal., Fresno—See "Structural Steel."

Cal., Los Angeles—M. McCoy Stamps, 1027 Lake St., plans 6-story, 50 x 150-ft. rein.-con. automobile supply and sales building, Santee St. Work to be done by day labor. About $60,000. F. A. Noyes, 505 Lankershim Bldg., arch.

Cal., Los Angeles—S. C. Ward, and associates, making plans 6-story, 115 x 150-ft. rein.-con. store and office, 7th and Hill St. About $150,-000. W. J. Dodd & W. Richards, 609 Brockman Bldg., archt. and engr.

Reinforced Concrete (Continued)

Bids Desired

Pa., Downingtown—Until May 1 by County Clerk for stone bridge. About $22,000. N. B. Rambo, West Chester, surv.

Pa., Pottsville—(Official)—Until Apr. 16 J. E. Kantner, co. controller for building new rein.-con. Bridge No. 49 over Mill Creek on Hancock St. in boro St. Clair.

Ky., Hazard—Until May 15 by Blue Diamond Coal Co. for concrete tipple on 1st Creek. About $8000 or $10,000.

O., Lancaster—Until Apr. 19 by Bd. County Comrs. building 13 bridges, rein.-con. and stone.

Minn., Austin—Until Apr. 20 by County for rein.-con. bridge, concrete pile, 4 truss spans, 3005 ft. long, 18 ft. roadway, 28 ft. overall, concrete flooring also 101 bridges on 13 different routes. About $200,000. O. J. Simmons, co. clk.

Prices and Contracts Awarded

★Indicates award of contract.

★**N. Y., New York**—(Brooklyn)—Boorum & Pease Co. let contract 7-story rein-con. factory, 176-180 Front St. to Turner Construction Co., 244 Madison Ave., New York.

★**N. Y., Yonkers**—Bd. Supervs. let contract masonry and rein.-con. bridge over Bronx River, between Yonkers and Tuckahoe to Fagnani Bros., Tuckahoe, $16,355.

★**Pa., Pittsburgh**—(Official)—National Biscuit Co. let contract 7-story rein.-con. bakery plant including 2-story power plant, Penn Ave. and Lambert St. and Pennsylvania R.R., to Turner Construction Co., 244 Madison Ave., New York.

★**Mich., Dundee**—City let contract to J. C. Brooks, 462 4th Ave., Detroit, for 200,000 gal. concrete reservoir and 50,000 gal. steel tank and tower. Cost $35,000.

★**Ill., Sullivan**—County let contract rein.-con. bridge, Whitley Twp., to James & Thornton, Mattoon.

Ia., Marshalltown—(Official)—County received bids Mar. 26 for 95 rein.-con. bridges and culverts and 6 pony truss bridges to be built in various sections of county from T. J. Wagner, Swea City Group 1, $20,410; Cole Bros., Ames, Group 2, $21,920; Ingersoll & Stoufer, Marshalltown, Group 3, $28,665; M. O. Burnett, Muringo, Group 4, $30,710.

★**Nevada**—Salt Lake & Los Angeles Ry. let contract building several rein.-con. bridges and concrete abutments for steel bridges on its lines in this state to Houghton Construction Co., 503 Market St., San Francisco, $90,000.

Cal., Colusa — School — Colusa Union High School Dist. let contract 1-story rein.-con. to J. S. HANNAH, Williams Bldg., San Francisco, $76,150.

★**Cal., Los Angeles**—Ville de Paris Store let contract 6-story, rein.-con. department store, 7th and Olive St., to C. J. Kubach Co., 701 Merchants National Bank Bldg., $200,000.

STREETS AND ROADS

Proposed Work

Mass., Boston—City estimates cost improving portion Commonwealth Ave. at $80,000. E. F. Murphy, comr. pub. wks.

Mass., Boston—Bd. Street comrs. plan building streets in South and East Boston, Charleston, Brighton, West Roxbury, Dorchester, Roxbury, City Proper and Hyde Park. E. F. Murphy, comr. pub. wks.

Mass., Fitchburg—City plans to spend $65,000 paving streets during year. G. H. Chase, comr. sts. and eng.

Mass., Leominster—City plans paving 3000-sq.yd. on cement base, 17,000-sq.yd. heavy bituminous macadam, about $26,000; will also spend $42,000 for maintenance and new equipment for streets. J. W. Gates, city engr.

R. I., Providence—State Bd. Pub. Roads making plans building 25-mi. road. I. W. Patterson, engr.

N. Y., Rochester—City soon lets contract annual repairs to asphalt pavements. F. T. Elwood, city engr.

N. J., Asbury Park—City plans paving Kingsley St. About $20,000. G. W. Pittenger, street comr.

N. J., Collingswood—Contract will be let about June (not Mar. 1, as previously stated) to pave several streets, granite block on concrete foundation. About $150,000. J. C. Remington, Jr., Camden, boro. engr.

N. J., Jersey City—T. J. Wasser, county engr. making plans paving Newark Turnpike, granite block.

N. J., Morristown—City plans paving portion Maple Ave., amiesite. A. S. Pierson, city engr.

N. J., Newark—City plans paving Oriental Terrace, Oriental and Delevan Pl., brick; Mulberry St., granite block; Moen Pl., Arlington and Mecker Ave., South 10th and 11th St., asphalt. M. R. Sherrard, city engr.

N. J., Newark—See "Railways Steam and Electric."

N. J., New Brunswick—City comn. plans opening street under Pennsylvania R.R. elevation. About $62,000. A. Atkinson, city engr.

N. J., Paterson—G. Ferguson, county engr., making plans paving 3 mi. Lakeside Ave. along west side of Greenwood Lake from Cooley's bridge to New York State line, macadam. About $50,000.

N. J., South River—Bd. Freeholders, New Brunswick, plan improving portion Main St. About $90,000. A. B. Fox, co. engr.

N. J., Trenton—A. Harris, county engr. making plans repairing Trenton-Lawrenceville Rd., sheet asphalt.

Pa., Brownsville—Boro. plans grading, paving, 16-ft. wide, portions 2nd, Water and 18th St., brick on 1½-in. sand and 6-in. concrete, also building concrete curbs 6-in. thick 22-in. deep on 4-in. broken stone and gravel on same. T. A. Waggonner, boro. secy.

Pa., Erie—County comrs. plan building 152 mi. road. About $1,500,000.

Pa., Palmerton—Boro. plans paving Delaware Ave. About $90,000.

Pa., Phila.—Legislature appropriated $300,000 to build and improve suburban roads. C. Albright, city engr.

Pa., Smethport—County to let contract in summer building roads. Bonds for $750,000 voted for work.

Pa., South Bethlehem—City plans to spend $150,000 for paving various streets. R. M. Brady, city engr.

Pa., Tarentum—City plans paving portion 3rd Ave. and repaving portion 2nd Ave. A. Thompson, city engr.

Pa., Williamsport—City will sell $60,000 bonds resurfacing asphalt pavements and building several sewers. J. B. Otto, city engr.

Del., Wilmington—County Levy Court authorized appropriation of $30,000 to build roads.

Va., Richmond—Administration Bd. soon lets contract widening portion Hull St. and opening intersecting streets between Hull St. and Midlothian turnpike. C. E. Bolling, city engr.

W. Va., Fairmount—County voted $195,000 bonds to improve roads in Grant Dist.

N. C., Asheboro—County plans top soiling several roads. S. Stanton, co. supv.

S. C., Chester—County voted $450,000 bonds to build roads.

S. C., Laurens—County voted $300,000 bonds to build roads.

S. C., Walterboro—(Official)—County defeated $500,000 bond issue to build roads.

Ga., Atlanta—W. L. Gilbert chn. county bd. pub. wks., soon lets contract minimum of 300,000 gal. and maximum of 600,000 gal. road oil; minimum of 250 tons and maximum of 1000 tons asphalt; minimum of 10,000 bbls. and maximum of 50,000 bbls. of cement; and sand and crushed stone. W. A. Hansell, Jr. supt. highways.

Ga., Griffin—City to let contract about June 1 paving streets, brick, concrete or asphalt. Estimate $135,000. Solomon-Norcross Co., engr., Atlanta, making surveys.

Fla., Bartow—County voted $90,000 bonds to build roads in Hamilton Road and Bridge Dist.

Fla., Tavares—County plans to issue $62,000 bonds to build clay roads in Howey Special Road and Bridge Tax Dist. H. H. Duncan, clk.

Miss., Decatur—County sold $30,000 bonds to improve roads in Beat 1 and $12,000 bonds to build link of Mississippi Travelers' Highway between this county and Lauderdale County line.

Miss., Starkville—City plans to spend $15,000 paving streets.

Tenn., Greeneville — (Official) —County voted $510,000 bonds to extend improved road system. C. E. Colle, engr.

Tenn., Jonesboro—County voted $750,000 bonds to build roads.

Ky., Marion—See "Bridges."

Ky., Paducah—County plans to spend $300,000 on road and bridge work during year. Contract will probably be let about May 1.

O., Cleveland—County plans to spend $1,000,000 improving streets and roads. J. Manning, comr.

O., Dayton—City Comn. plans improving portion Illinois Ave. J. B. Harshman, clk.

O., Logan—County plans improving 6-mi. roads and plans to purchase road and culvert materials. E. Shaw, co. engr.

O., Sidney—City plans to improve portion Court and Water St. and Wapakoneta Ave. T. Blake, city engr.

O., Mt. Vernon—City plans to improve portion Wooster Ave. W. C. Anderson, city engr.

Mich., Mt. Clemens—County Rd. Comrs. plan 42.5-mi. road 9- to 16-ft. wide, slag or gravel base and gravel top. W. J. Lehner, engr.

Ill., Alton—City to let contract in May paving Belle Ave., concrete.

Ill., Chenoa—City soon receives bids street paving. About $22,000.

Ill., Mattoon—City plans paving 12,000-sq.yd. DeWitt Ave., cement filler and concrete base. J. A. Goltz, city engr.

Ill., Murphysboro—City lets contract in May, brick paving. About $140,000. R. A. Rollo, city engr.

N. D., Hettinger—County comrs. making plans building 100-mi. road.

Mo., Palmyra—County plans to spend $65,000 to improve roads. F. E. Robinson, asst. highway engr.

Tex., Amarillo—City voted $50,000 bonds to pave about 50 blocks. M. H. Hardin, city mgr.

Tex., Bay City—County voted $36,000 bonds to build shell roads in Matagordo-Wadsworth precinct.

Tex., Center Point—City voted $15,000 bonds grading and paving roads, also building 2 bridges over Guadalupe River.

Tex., Clarendon—(Official)—City retained H. E. Elrod, consult. engr. Interurban Bldg., Dallas, to make plans paving business section.

Tex., Orange—County plans election to vote on $500,000 bonds to build roads.

Tex., Quitman—County voted $218,000 bonds to improve roads, macadam. R. E. Morris, asst. highway engr.

Tex., Waco—City will hold election Mar. 7, to vote on $50,000 bonds to improve streets and install sewers. G. B. Gunley, city engr.

Okla., Frederick—County plans to pave 51 blocks, concrete. P. A. Little, co. engr.

Okla., Norman—County election Apr. 30 to vote on $18,000 bonds to build roads in Little River Township.

Okla., Norman—County election Apr. 30 to vote on $30,000 bonds to build roads in Norman Township.

Okla., Tishomingo—Garret Twp. voted $28,000 road bonds and Harris Twp. $14,000 road and bridge bonds. R. P. Smith, chmn. bd. comrs.

Idaho, Rexburg—City passed resolution to improve Dist. No. 9 by paving, sidewalks, etc. About $80,000.

Ariz., Globe—See "Sewers."

Wash., Everett—County plans paving bonded road No. 15, concrete.

Wash., Garfield—City plans grading principal streets and laying concrete sidewalks. About $20,000.

Wash., North Yakima—County comrs. plan election to vote on $1,500,000 bonds to build 100-mi. concrete roads and extend gravel roads. O. E. Brashears, county engr.

Wash., Sprague—City plans paving 12 blocks. About $30,000. Sawyer Bros., Spokane, engr.

—County comrs. rejected bids improving permanent highway No. 3. New bids. G. G. Harvey, co. engr.

Wash., Walla Walla—W. R. Rehorn, city engr., making plans paving several streets in residential section. About $18,000.

Cal., Calistoga—City plans paving Lincoln Ave. About $15,000. J. C. Adams, 375 Lincoln Ave., clk.

Cal., San Diego—City plans to spend $125,000 for concrete and asphalt pavement during year in city proper and also plans to spend $300,000 concrete pavement on Torry Pines Rd. to connect with state highway. G. Cromwell, city engr.

Ont., Guelph—Pub. Wks. Com. adopted estimates prepared by F. McArthur, city engr. as follows: Grading streets $6000; general street repair $2000; pavement repairs $30,250.

Ont., Welland—County Council appropriated $35,000 for road maintenance and $62,000 for construction this year. W. W. Brookfield, co. road supt.

Ont., Woodstock—County plans road improvements during year to cost $10,000. W. Forbes, 25 Light St., co. road supt.

Bids Desired

N. J., Camden—Until Apr. 16 by Common Council for repaving Broadway, belgian blocks, concrete foundation. L. E. Farnham, city engr.

N. J., Passaic—Until Apr. 18 by Bd. Freeholders improving Midvale and Greenwood Lake Rd., waterbound macadam. G. W. Botbyl, Paterson, clk.

Pa., Bradford—(Official)—Until Apr. 16 by E. C. Charlton, city clk., paving 7 streets, about 28,000 yd.; advertised in this issue.

O., Cambridge—(Official)—Until Apr. 24 by city paving 6000 sq.yd. Woodlawn Ave., brick on concrete base and stone curb. J. M. Hilley, city engr.

O., Celina—Reported desired until Apr. 16 building 7-mi. gravel or macadam roads. N. Hintin, engr.

Ind., New Albany—Until Apr. 21 by E. Dupaquier, county aud., for 7700-ft. road New Albany Twp.

Streets and Roads (Continued)

Ill., Kewanee—(Official)—Until Apr. 17 by Bd. Local Improv. paving 16,600-sq.yd., brick, 4-in. monolithic base; 28,165-sq.yd. asphaltic concrete, 5-in. concrete base with curbs and 3920-sq.yd. street railway paving. H. G. Stokes, city engr.

Mont., Bozeman—Until Apr. 19 by C. A. Spieth, city clk., paving and installing storm-sewers in Dist. No. 145, including 4200-sq.yd. bitulithic paving and 924 ft. 10- to 18-in. sewer. C. C. Widener, city engr.

Ark., Marianna—(Official)—Until Apr. 16 paving Poplar, Chestnut, Cemetery and Chestnut St., waterbound, bituminous or oiled macadam, about 7000 sq.yd. Herring & Schellhous, Forest City, engr.

Tex., Plainview—Until Apr. 16 by city for building streets. About $120,000. B. L. Spencer, secy. H. E. Elrod, Interurban Bldg., Dallas, engr.

Okla., Ardmore—Until Apr. 18 by Ardmore Oil Fields Transportation Co., at office of J. C. Field and Co., Engr., Ardmore, for building toll highway from Ardmore northwest extending to Healdton oil fields, about 30 mi. long. B. A. Simpson, pres.

Wash., Chehalis—(Official)—Until Apr. 20 by county for 2½-mi. 1 course concrete road, 16-ft. wide and 1-mi. 1 course concrete road, 8-ft. wide, including clearing, grading, hard surfacing, etc. About $45,000. J. D. Neville, county engr.

Wash., Colfax—Until Apr. 16 graveling 63,706.6-ft. permanent highway No. 12. J. M. McCaw, co. engr.

Wash., Everett—Until Apr. 23 by M. Weatherbee, co. aud., building bond road No. 18, concrete. About $30,500.

Prices and Contracts Awarded

★Indicates award of contract.

★**R. I., Wickford**—State Bd. Pub. Roads let contract 3-mi. bituminous roadway to A. D. Bridges & Son, Narragansett Pier, $69,000.

N. Y., Albany—(Official)—State Highway Comm., 55 Lancaster St., received low bids Apr. 6 repairing highways in various counties as follows: Repair Contract No. 1016, Rd. No. 119, Loudon, Part 2, Albany Co.: Belmar Contracting Co., Inc., Troy, $37,158; T. F. Shaughnessey, Albany, $35,660; Sewage Disposal and Water Plant Co., Schenectady, $39,000. Repair Contract No. 1020, Rd. Nos. 112, 225, 598 665, 705, 806, 5414, Chenango Co.: Griffin & Griffin, Norwich, $8589; Paddelford & King, Sherburne, $8805; Harris & Griffin, Norwich, $8848. Repair Contract No. 1037, Rd. Nos. 380 and 381, Cortland Co: McGreevey, McGuigan & Baum, Elmira, $40,593; Pathfinder Construction Co., Fulton, $40,986; Dale Engineering Co., Utica, $42,831. Repair Contract No. 1064, Rd. No. 568, Millbrook-Lithgow, Dutchess Co.: Roy J. Garofano, Amenia, $27,080. Repair Contract No. 1074, Rd. Nos. 272, 522, 584, 642, 645, 1064, Erie Co.: Richard Hopkins, Troy, $10,449. Repair Contract No. 1025, Rd. Nos. 186, 1148, 1164, 1225, 1226, 5427, Jefferson Co.: Pathfinder Construction, Inc., Fulton, $9149; Defiance Corporation, Ticonderoga, $9691; Richard Hopkins, Troy, $10,665. Repair Contract No. 1066, Rd. No. 6, Ridge, Part 1, Monroe Co.: Whitmore-Rauber & Vicinius, Inc., Rochester, $25,622; M. W. Wilbur, Rochester, $27,579. Repair Contract No. 1050, Rd. No. 100, Rochester-Webster, Part 3, Monroe Co.: Harry W. Roberts & Co., Utica, $16,214; John W. Davitt, Albany, $16,336. Repair Contract No. 1079, Rd. Nos. 140 and 271, Oneida Co.: Harry W Roberts & Co., Utica, $52,885; Dale Engineering Co., Utica, $54,293. Repair Contract No. 1071, Rd. Nos. 295, 296, 560, 561, 563, 1158, 5346, 5553, Oneida Co.: Defiance Corporation, Ticonderoga, $16,624; Dale Engineering Co., Utica, $18,910. Repair Contract No. 1038, Rd. No. 672, Syracuse-Bridgeport, Part 1, Onondaga Co.: F. A. Biggi, Albany, $22,876. Repair Contract No. 1039, Rd. Nos. 292 and 486, Onondaga Co.: F. A. Biggi, Albany, $32,132. Repair Contract No. 1011, Rd. Nos. 285 and 439, Renselaer Co.: Defiance Corporation, Ticonderoga, $46,640; Richard Hopkins, Troy, $46,765; Flood & Van Wirt Co., Hudson Falls, $47,207. Repair Contract No. 1015, Rd. No. 788, South Schenectady-Mariaville-Schenectady Co.: J. J. Malloy, Schenectady, $28,688. Repair Contract No. 1056, Rd. No. 5043, Ithaca-Danby, Part 1, Tompkins Co.: Greenfield Construction Co., Horuell, $16,334; Patrick D. Conley Ithaca, $16,587; McGreevey, McGuigan & Baum, Construction Co., Elmira, $16,945.

N. Y., Albany—(Official)—State Highway Dept., 55 Lancaster St., received low, bids Apr. 9 repairing public highways in various counties as follows: Repair Contract No. 1012, Road No. 41, Albany Co.: Sewage Disposal and Water Plant Co., Schenectady, $13,887; Belmar Contracting Co., Troy, $14,690. Repair Contract No. 1028, Roads Nos. 28, 357, 725, 1310, 5218, 1205 and 1210, Chemung and Yates Cos.: Atlantic Refining Co., Phila., $10,331. Repair Contract No. 1024, Road No. 64, Chenango Co.: T. D. Carter, Norwich, $20,153; N. E. Young, Jeffersonville, $20,923; Paddelford & King, Sherburne, $21,014. Repair Contract No. 1063, Road No. 552, Dutchess Co.: S. B. Van Wagonen, Inc., Rondout, $30,514. Repair Contract No. 1046, Road No. 1074, Essex Co.: W. L. Lawton, Glens Falls, $25,955. Repair Contract No. 1009, Roads Nos. 110 and 247, Fulton Co.: J. P. Dugan & Co., Inc., Amsterdam, $25,908. Repair Contract No. 1062, Roads Nos. 853, 1268, 5538, 714, 715, 1247, 1248, 5398, 1284, 854 and 5410, Genesee, Livingston, Monroe and Wyoming Cos.: Sweeney & Boland, Rochester, $13,870; J. J. Crouch, Rochester, $14,376; Ribstein-Holter Co., Inc., Rochester, $14,494. Repair Contract No. 1026, Roads Nos. 5327 and 5332, Lewis Co.: Pathfinder Construction Co., Inc., Fulton, $7172; R. Hopkins, Troy, $8186. Repair Contract No. 1048, Road No. 5302, Livingston Co., H. W. Roberts Co., Utica, $23,119; Whitmore-Rauber & Vicinius, Inc., Rochester, $27,138. Repair Contract No. 1007, Road No. 304, Montgomery Co.: J. P. Dugan & Co., Inc., Amsterdam, $37,076; Dale Engineering Co., Utica, $38,809. Repair Contract No. 1072, Roads Nos. 368, 369, 559, 839, 1157, 5521, 5558, Oneida Co.: Paddelford & King, Sherburne, $15,703; Defiance Corp., Ticonderoga, $17,708. Repair Contract No. 1029 Roads Nos. 315, 677, 678, 781, 934 and 1303, Otsego Co.: Harris & Griffin, Norwich, $5842; Griffin & Griffin, Norwich, $5857; Atlantic Refining Co., Phila., $5918. Repair Contract No. 1036, Road No. 1070, Onondaga Co.: Dale Engineering Co., Utica, $4171; Rossney Contracting Corp., Buffalo, $4431. Repair Contract No. 1017, Road No. 536, Rensselaer Co.: W. L. Lawton, Glens Falls, $32,407; Defiance Corp., Ticonderoga, $37,559. Repair Contract No. 1019, Roads Nos. 1215, 1234, 5444 and 5458, Schoharie Co.: Harris & Griffin, Norwich, $10,070; Atlantic Refining Co., Phila., $10,221; W. G. Fox, Saratoga, $10,327. Repair Contract No. 1057, Road No. 5208, Schuyler Co.: Holleran Bros., Elmira, $10,240; F. F. Murray, Rochester, $10,511. Repair Contract No. 1022, Roads Nos. 999, 1232, 5474, 5215, 5471, 72, 336, 338, 606, 5213, 5256, 5474, Schuyler, Tioga and Tompkins Co.: Atlantic Refining Co., Phila., $18,961. Repair Contract No. 1058, Road No. 231, Ulster Co.: DeGraff & Hogeboom, Inc., Kingston, $31,375; S. Beskin, Beacon, $31,757; G. E. Van Wagonen, Inc., Rondout, $32,374.

★**N. Y., Elmira**—City let contract paving 10,400-sq.yd. West Washington Ave., bitulithic with concrete curbs and 6800-sq.yd. South Walnut St. to Warren Bros. Co., Boston; 3160-sq.yd. West La France St., brick with concrete curbs, to Holleran Bros., Elmira.

N. Y., New York—(Manhattan)—(Official)—M. M. Marks, boro. pres., Room 2032 Municipal Bldg., received low bids Mar. 28, regulating and repaving portion of 5th St. from Asphalt Construction Co., Madison Ave. and 137th St., $56,893; portion 6th Ave. from Franklin Contracting Co., 52 Vanderbilt Ave., $45,927.

N. Y., New York—(Richmond)—(Official)—C. D. Van Name, Boro Pres., Boro Hall, St. George, New Brighton, S. I., received low bids paving 2 portions Amboy Rd. (a) and (b) from Uvalde Asphalt Paving Co., 1 Broadway, Manhattan, (a) $77,249, (b) $75,503; Union Paving Co., (b) $69,206; Eastern Asphalt Co., (b) $72,065.

★**Pa., Ebensburg**—County let contract for 660,000 brick required for rebuilding 1-mi. and 4862-ft. Crescent Pike, Munster Twp., to Patton Fire Clay Manufacturing Co., Patton, $21.50 per M.

★**Pa., Phila.**—Bureau City Property let contract laying or repairing Neuchatel or asphalt paving to H. L. Markland, 612 Lincoln Bldg.

★**Md., Baltimore**—Bd. Awards let contract improving 16 streets in northwestern and 15 in northwestern annexes to American Paving Co., Montbello Ave. and Jenkins Lane and Baltimore Asphalt Block and Tile Co., Monroe and Lorman St., at $1.81 and $1.78 per sq.yd. respectively.

★**Va., Norfolk**—(Official)—City let contract to Lawson Construction Co., paving 33,795-yd. sheet asphalt, $1.75 per yd., F. J. McGuire, 4000-yd. wood block, 6-in. base, class "A" oil and 520-yd. wood block 5-in. base, class "A" oil, $3.15 and $3.04 per yd., respectively.

★**N. C., Hamlet**—(Official)—Bd. Comrs. let contract 50,000 lin.ft. concrete curb and gutter, 25,000 sq.yd. sidewalks, 20,000 cu.yd. grading and necessary drainage to W. J. Galloway, Hamlet.

★**S. C., Clinton**—City let contract paving from 4- to 8-mi. sidewalks to G. C. Odiorne, Anniston, Ala.

★**S. C., Coulmbia**—(Official)—City let contract concrete sidewalks and storm drains to J. D. Lawrance, $13,000.

★**Fla., Palatka**—City let contract paving 6000-sq.yd. streets, vitrified brick, to Alabama Paving Co., Birmingham, Ala., $1.53 per yd.

Miss., Iuka—E. F. Parnell, Secy. co. comrs., let contract building 6-mi. gravel roads, 1st Dist. to H. D. Harvey & Co., Tupelo.

★**Tenn., Johnson City**—City let contract paving streets, asphalt, to Maury Construction Co., Knoxville. About $45,000.

O., Cleveland—County comrs. let contract paving new high level bridge, stone or granite block, Cleveland Trinidad Paving Co., 420 Lakeside Ave., $144,000.

★**O., Cleveland**—Bd. Control let contracts paving sidewalks as follows: West 110th St., Freshwater Construction Co., Madison Ave., $15,844; East 57th and Chadakoin St., Rieley Bros., 348 Arcade, $13,626; Benham, Gay Oakfield, Rexford, Holburn and East 124th St., O. J. Leach, 504 Eddy Rd., $28,054.

★**O., Findlay**—City let contract improving Putnam, College and Frazier St. to Johnson Construction Co., 115 South Dearborn St., Chicago, $15,540, $5974 and $6040 respectively.

★**Ind., Albion**—(Official)—County let contract paving 12-mi. brick roads to Crepe & Seaman, Goshen, $120,450.

★**Ind., Plymouth**—(Official)—County let contract gravel road to Becker & Enyart, Fulton, $15,575.

★**Ind., Plymouth**—(Official)—County let contract Jacoby Rd. to T. H. Billinger, Plymouth, $14,500.

★**Ind., Salem**—(Official)—County let contract roads in Washington Twp. to J. C. Brown, Salem, $21,490.

★**Ind., South Bend**—County let contract Gosben-Middlebury Rd. to Cripe & Seaman, $32,900

★**Ind., Vevay**—(Official)—County let contract improving highways to A. Beckman, Jr., Patriot, $11,188.

★**Ill., Galesburg**—Bd. Local Impvts. let contract paving Matthew and South St. to J. B. McAuley, Galesburg, $13,000.

★**Ill., Pontiac**—City let contract paving East 2nd and Moulton St. to R. Lobb & Sons, $15,993.

★**Ill., Springfield**—(Official)—State Highway Dept. let contract state-aid roads in counties as follows: Champaign County, brick, to C. A. Michael, Mattoon, $36,900; McLean County, earth Cameron-Joyce & Co., Keokuk, Ia., $36,800; St. Clair County, waterbound macadam. C. B. Degenhardt, Alton, $19,976; Winnebago County, concrete, Hart & Page, Rockford, $21,358.

★**Ill., Streator**—Bd. Local Impvts. let contract paving Bronson St. and River Ave. to Jensen & Scheffer, Pekin, $41,913.

★**Ia., Audubon**—(Official)—City let contract paving various streets to M. L. Flynn Paving Co., Sioux City, $1.41 per sq.yd.

★**Ia., Avoca**—(Official)—Town let contract 18,000 lin.ft. curb and gutter, 27,000 sq.ft. curb and gutter, 27,000 sq.yd. paving and 2000 cu.yd. extra grading to Moore-Selg Construction Co., Waterloo, $60,000.

★**Ia., Oolwein**—City let contract paving 11,000-sq.yd. on various streets to Dearborn Construction Co., Waterloo, $25,740.

Minn., Eveleth—City lets contract in June paving streets. About $55,000 to $75,000. C. M. Dorway, city engr.

★**Minn., Glenwood**—(Official)—County let contract road jobs Nos. 2 to 7, to Studer & Manion, Excelsior, $21,135.

★**Kan., Council Grove**—(Official)—City let contract paving 19 blocks to E. W. Geiger Construction Co., Leavenworth, $28,000.

Mo., St. Louis—Bd. Pub. Wks. received low bids Mar. 30 improving portions of (a) Prather Ave., vitrified brick pavement, 6-in. concrete base; (b) Garner Ave., same material excepting concrete base; (c) Terry Ave., vitrified brick pavement, 5-in. concrete base and concrete curb; (d) St. Edward Ave., same material; (e) Thrush Ave., same material; (f) grading Oakland Ave., from T. Cavanaugh, (a) $20,916, (b) $14,030; F. P. McCormick, (a) $21,318, (b) $14,135, (c) $34,014, (d) $36,082, (e) $41,426; J. F. McMahon Construction Co., (b) $15,022, (e) $39,646; Perkinson Bros. Construction Co., Grand and Carter St., (c) $32,081, (d) $35,017; Skainka Construction Co., (c) $34,035, (d) $36,075, (e) $40,437; Fruin-Colnon Contracting Co., Merchants-Laclede Bldg., (f) $25,385; Webb Kunse Construction Co., (f) $28,575.

★**Ariz., Douglas**—City let contract paving 9th, 10th, 11th and 12th St. to Southern California Construction Co., Los Angeles, $287,716.

★**Wash., Ellensburg**—County let contract building 51-mi. permanent highway No. 3-B to Hutter Construction Co., Cle Elum, $13,974; permanent highway No. 2-C to O. S. Brown, Prosser $19,530.

★**Wash., Everett**—(Official)—Bd. County Cmrs let contract paving proposition No. 10, Marysville Arlington Rd., to H. J. Kaiser Paving Co., Everett, $104,844.

Wash., Everett—County let contract bonded road No. 15 to T. Ryan Construction Co., Seattle, $30,919.

Ore., St. Helens—County let contract Mist-Clatskanie Rd. to A. L. Clark, Rainer, $19,649

Cal., Fresno—(Official)—City rejected bids for 5000 to 8000 gal. road oil. W. H. Ryan, city clk.

Cal., Long Beach—Bd. pub. wks. received low bids improving portions Anaheim St. and Cedar Ave. from Fairchild-Gilmore-Wilton Co., Pacific Electric Bldg., Los Angeles, $50,976; and Bryant & Austin, 1650 Compton Ave., Los Angeles, $52,902.

★**Que., Hull**—City let contract paving streets to Ottawa Construction Co., Central Chambers, Ottawa, $100,000.

RAILWAYS

STEAM AND ELECTRIC

Proposed Work

Mass., **Worcester**—Worcester Consolidated Street Ry. plans to reconstruct its tracks and install new feed wires on Front St. during summer. About $30,000. H. C. Page, gen. mgr.

N. Y., **Albany**—R. H. Gillett and W. H. Schott, both of Albany, are reported interested in project to build from Albany to Pittsfield, Mass., 37½ mi. About $1,000,000.

N. Y., **Elmira**—Elmira Water, Light & R.R. Co., plans double tracks on portions Lake and Water St. About $40,000. F. H. Hill, Lake and Water St., gen. mgr.

N. Y., **Syracuse**—New York State Rys. (Syracuse Lines) plans extensions and improvements to system to cost $500,000. Work includes 5100-ft. new track; 20,000-ft. track replacements; rolling doors, Wolf St. car barn; electric equipment; block signal system, East Syracuse line and street paving. Also considering new car houses on Burnett St., about $125,000. B. E. Tilton, Gridley Bldg., gen. mgr.

N. J., **Camden**—Pennsylvania R.R. purchased site at 36th St. and River Rd. and plans spur to Delaware River front to connect with proposed bridge to Petty's Island. A. C. Shand, Broad St. Station, Phila., ch. engr.

N. J., **Newark**—Bd. Works voted $500,000 bond issue for meadow improvements at Port Newark, including railway line from Lincoln Highway to Central R.R. of New Jersey tracks; opening and improvement of Roanoke Ave. and Foundry Pl.; new bridges at Ave R and Bay Ave. over Lehigh Valley R. R. tracks. M. R. Sherrard, city engr.

Pa., **Newville**—Cumberland Ry. completed survey for 9-mi. line from Newville to Shippensburg. G. A. Plough, Carlisle, treas. and gen. mgr.

W. Va., **Parkersburg**—Monongahela Valley Traction Co. plans interurban line to connect Parkersburg, W. Va., and Marietta, O., with Fairmont, W. Va. Proposed line will run via New Martinsburg and Ohio River and be about 30 mi. ling. Company will use lines of Tyler Traction Co., running from New Martinsville to Sistersville, while extensions are being made. E. B. Moore, Fairmont, gen. mgr. and ch. engr.

Ky., **Ashland**—J. C. Vaughan, Richmond, interested in plan to raise $50,000 toward $100,000 already subscribed to build electric railway from Ashland to Russell, during summer, about 5 mi.

Ky., **Hazard**—Louisville & Nashville R.R. made surveys 10-mi. branch line from Hazard up Lotts Creek to develop coal lands. W. H. Courtenay, Louisville, ch. engr.

O., **Blanchester**—Cincinnati, Milford & Loveland Traction Co. plans extending line from Blanchester to Wilmington. J. Montgomery, Madisonville, gen. supt.

O., **Lorain**—Lorain, Ashland & Southern R.R. made plans removal of grade crossing over Broadway calling for track elevation and 16-ft. clearance. J. P. Ramsey, Ashland, supt. and ch. engr.

Wis., **Green Bay**—Green Bay & Eastern Ry. received certificate of convenience and necessity from Wisconsin Railroad Comn. for proposed line from Green Bay to Manitowoc and Sheboygan to be built early in summer. W. M. Willinger, Manitowoc, pres.

Kan., **Wichita**—Arkansas Valley Interurban Ry. applied to City Council for franchise to construct line in 19th St. W. J. Faulkner, 120 West 1st St., supt. and pur. agt.

Tex., **Dallas**—Missouri Kansas & Texas R.R. filed plans with city engr. for lowering Lemmon Ave., Cedar Spring Rd., and Fairmont or Maple Ave. and raising tracks for eliminating grade crossings in North Dallas. About $267,000. L. F. Lonnbladh, Dallas, ch. engr.

Wash., **Port Angeles**—Port Angeles & Grays Harbor Ry. making surveys 130-mi. line from Port Angeles to Grays Harbor including grading and bridge work. Company may receive bids during next 3 months. About $4,500,000 or $5,000,000. J. W. Lindsay, Port Angeles, interested.

Wash., **Seattle**—C. E. Remsberg, secy., Port of Seattle Comn., soon lets contract single track belt line along East Marginal Way from Spokane St., about 4-mi. About $20,000.

Wash., **Tacoma**—A. Gronen, city comr. who is working with G. W. Rounds, gen. supt., Tacoma Railway and Power Co., 1319 A St., on proposed extension to present muncipal street railway across tide flats to plant of Todd Shipbuilding outside city limits, states double track will be needed. Cost will be $75,000 more than preliminary estimate.

Cal., **San Diego**—San Diego Electric Railway applied to City Council for franchise to lay tracks on portion 5th and Washington St. to effect cut-off between 2 lines. B. M. Warner, 209 Union Bldg., San Diego, gen. supt.

Sask., **Saskatoon**—Saskatoon Municipal Ry. plans to spend $19,640 to extend system and purchase equipment. G. D. Archibald, City Hall Saskatoon, supt.

Prices and Contracts Awarded

★Indicates award of contract.

★**Ala., Tannehill**—Southern Railway System let contract double tracking work on Alabama Great Southern Ry. (branch of Southern Railway System) from Tannehill (P. O. Green Pond) to M. M. Elkan, Macon, Ga.

★**La., Long Leaf**—Red River & Gulf R.R. let contract grading work on extension from Long Leaf through Rapides and Vernon parishes to Hornbeck on Kansas City Southern Ry., about 65 mi. to I. McGinnis, Alexandria and J. Moore & Son.

★**Ore., Prineville**—Prineville & Northern Ry. let contract grading line from Prineville to main line of Oregon Trunk R.R., 18½-mi., to E. T. & H. H. Johnson, Commercial Blk., Portland, $53,000.

EXCAVATION AND DREDGING

Proposed Work

Canal—N. J., Trenton—State soon lets contract constructing Bay Head Manasquan Sect. of state canal. Legislature appropriated $25,000 additional to $50,000 already appropriated.

Ditch—Ia. Idagrove—Bd. Supervs. rejected proposition to straighten Maple River north of here by constructing ditch 19 miles long. Cost, $25,000.

Drainage—Neb., Lincoln—(Official)—Sanitary Dist. No. 1 rejected bids cleaning and deepening portion of channel of Salt Creek. Will readvertise.

Irrigation—Mont., Lewiston—D. Hilger and W. J. Winnett plan Flatwillow-Carney land project to irrigate 90,000 acres. About $150,000.

Irrigation—Idaho, Twin Falls—J. H. Burkett, Twin Falls, retained to make plans for Settlers Irrigation Assn., which is being organized to irrigate 40,000 acres land between Hansen and Milner, Twin Falls County. Water would be obtained from Snake River by means of pumps. Cost including power plant, light and power, etc., $700,000. Sweeley & Sweeley, Attnys.

Irrigation—Ore., Klamath Falls—Klamath Irrigation Dist. applied to State Engr. for permission to divert 280-cu.ft. per second of waters of Klamath River for irrigation of 27,983 acres land near Lower Klamath Lake, Klamath County. Will reclaim land by levees to be built along banks of proposed canal. About $40,000.

Irrigation—Ore., Vale—Willow Creek-Alder Irrigation Dist. applied to A. Lewis, state engr., Salem, for permission to form irrigation district embracing 18,000 acres south of Vale, Mathews County.

Irrigation—Cal., El Centro—Col. W. H. Holabird, engr., 318 Land Title Bldg., Los Angeles, F. H. Merrill, and W. B. Baker, 911 Brockman Bldg., and others, planning bringing water from Whitewater River and other streams in San Jacinto Mountains into Coachella Valley for irrigation, and into Imperial Valley for domestic use; have also made surveys for dam in Morongo Valley to impound 109,000 acre-ft. and an open concrete and covered pipe canal 165 miles long, with hydro-electric plants along line for developing 40,000 hp; cost $10,800,000

Bids Desired

Dredging—Fla., Jacksonville—Until Apr. 19 by Bd. Port Comrs. dredging and removal material dredged to depth of 22 ft. at Market St. pier. J. C. Odell, gen mgr.

Drainage—Ia., Winterset—(Official)—Until Apr 25 by C. D. Norman, co. audr. for tile drainage. Former bids rejected:

Prices and Contracts Awarded

★**Excavation—Pa., Moosic**—Delaware & Hudson Co. let contract 400,000 cu.yd. steam-shovel excavation (coal stripping) to Dick & Co., Hazleton.

★**Ditch—Ind., Columbia City**—(Official)—County let contract open work Blue River Ditch to Chapman Bros., Celina, O., $46,000; furnishing tile on banks of ditch to Krick-Tyndall Tile Co., Decatur, and Portland Drain Tile Co., Portland, $61,000.

★**Ditch—Minn., Redwood Falls**—County let contract Ditch No. 24 to E. D. Bar, Herman, Neb.

★**Irrigation—Wash., Otis Orchard**—Otis Orchard Irrigation Dist. let contract 28 mi. pipe line for irrigation system to O. N. Wolff & Co., Spokane, $60,000.

INDUSTRIAL WORKS

Proposed Work

R. I., Providence—Langher Manufacturing Co., 67 Clifford St. plans 2- and 3-story, 191 x 133-ft. brick, machine shop.

R. I., Providence—United Lace and Braid Manufacturing Co. plans 90 x 200-ft. addition. About $75,000. C. R. Makepeace, arch., making plans.

Conn., Oakville—Autotyre Co. made plans 4-story, 60 x 140-ft. factory. Fletcher-Thompson, Inc., Bridgeport, arch.

Conn., Torrington—Hendee Machine Co. made plans 2 additions, 4-story, 80 x 125-ft., 1 to be used as storehouse.

N. Y., Camillus—See "Reinforced Concrete."

N. Y., New York—(Brooklyn)—I. Friedland, 16 Court St., made plans 4-story, 100 x 100-ft. garage. About $100,000. P. Caplan, 16 Court St., arch.

—(Manhattan)—See "Reinforced Concrete."

—(Manhattan)—G. W. Loft, Broome and Centre St., plans 7-story, 20 x 75-ft. factory, 398 Broome St. About $80,000. Foster & Gade, 15 West 39th St., archt.

—(Manhattan)—Washington Ice Co., 90 West St., plans plant 168th St. and Jumel Ave. About $110,000.

N. J., Camden—J. Campbell Soup Co. plans 5-story, factory. Ballinger & Perrot, arch., 17th and Arch St., Phila., soon receives bids.

Pa., Harrisburg—Publishing House of United Evangelical Church, 201 North 2nd St., made plans 2-story, 120 x 160-ft. factory, store and office building. About $150,000. Fahnestock & Raidabaugh, 401 Patriot Bldg., arch.

Pa., Phila.—Windsor Chocolate Co., 24th and Hamilton St., plans 4-story, 79 x 117-ft. addition. About $100,000.

Pa., Pittsburgh—H. B. Yardum, Jenkins Arcade, plans 6-story, 60 x 60-ft. garage. About $75,000. T. Scott, Benedum Trees Bldg., arch.

Md., Baltimore—Standard Grease Co., 1500 Continental Bldg., plans 3-story factory. About $100,000. P. S. Gilchrist, Charlotte, N. C. engr.

N. C., Roanoke Rapids—Roanoke Mills Co. plans mill addition, main mill will be 157 x 542-ft. About $630,000.

O., Cincinnati—Standard Oil Co., 313 Ohio Gas Bldg., Cleveland, soon receives bids oil plant. About $300,000. R. A. Tingle, 1400 State St., Cincinnati, local agt. Chistian, Schwartzenberg & Gaede, 1900 Euclid Bldg., Cleveland, engr.

O., Cleveland—Rubber Goods Mfg. Co., plans 7-story, 80 x 200-ft. brick and concrete plant, Lisbon Ave. and Pensylvania R.R. About $200,000.

O., Whitehouse—Page Dairy Co., Wade and Knapp St., made plans 2-story, 60 x 120-ft. dairy plant. About $60,000. H. A. Page, pres.

Ill., Chicago—Acme Packing Co., 2226 South LaSalle St., plans 3-story, 50 x 123-ft. packing plant. About $40,000. Gardner & Lindberg, 140 South Dearborn St., arch and engr. soon receives bids.

—Illinois Smoked Meat Co., 2710 Poplar Ave., plans 3-story, 149 x 160-ft. packing plant. About $100,000. P. Gerhardt, 64 West Randolph St., archt., soon receives bids.

Ill., Chicago—Illinois Smoked Meat Co., 2710 Poplar Ave., plans 3-story, 149 x 160-ft. packing plant. About $100,000. P. Gerhardt, 64 West Randolph St., arch., soon receives bids.

Wis., Milwaukee—Coöperative Co., 781 44th St., plans oleomargarine factory, brick and concrete. About $50,000.

—Monarch Manufacturing Co., 79 Chicago St., made plans 5-story, 170 x 215-ft. plant. About $200,000. M. Tullgren & Sons, 1st National Bank Bldg., archt.

Ia., Des Moines—Sheuerman Bros., 8th and Market St., plans 4- or 5-story addition to factory. Proudfoot, Bird & Rawson, New Hubbell Bldg., arch., soon receives bids.

Ia., Sioux City—Chicago, Milwaukee & St. Paul Ry. plans 30 stall roundhouse, part of $1,000,000 terminal improvement. C. F. Loweth, Railway Exchange Bldg., Chicago, ch. engr.

Mont., Mills City—See "Reinforced Concrete."

Okla., Oklahoma City—Sifers Candy Co., Hutchinson, Kan., purchased site at 12th St. and Atchison, Topeka & Santa Fe. R.R. and will build candy factory. About $300,000.

Wash., North Yakima—Earl Fruit Co. retained W. W. De Veux, arch., Masonic Temple, to make plans 2-story, 75 x 140-ft. warehouse. About $50,000.

Cal., Alameda—Union Iron Works plans extending plant. About $5,000,000.

Prices and Contracts Awarded

★Indicates award of contract.

★**Vt., Burlington**—Vermont Milk Chocolate Co. let contract 1- 2- and 3-story concrete and brick factory to J. E. Cashman Co. Noted Apr. 5.

N. Y., New York—(Brooklyn)—See "Reinforced Concrete."

★**N. Y., Solvay**—Pass & Seymour let contract factory to H. D. Best Co., 52 Vanderbilt Ave., New York, $150,000. Noted Apr. 5.

★**Pa., Erie**—Erie Forge Co., 15th and Cascade St., let contract steel plant addition to Lackawanna Bridge Co., Buffalo, $1,000,000.

★**Pa., Phila.**—Atwater Kent Manufacturing Co., Stanton Ave., let contract addition to factory to Ward, Yardley Co., 1737 Filbert St., $75,000.

—Budd Manufacturing Co., Hunting Park and Wissahicken Ave., let contract factory to W. Moore Co., Commercial Trust Bldg., $55,000.

★**Pa., Rutherford**—Philadelphia & Reading Ry., let contract engine and power house to A. L. Carpart, H. Hale Bl., $50,000.

Pa., Pittsburgh—See "Reinforced Concrete."

Industrial Works (Continued)

★**Pa., Pittsburgh**—Hammond Packing Co., 301 Ferry St., let contract packing plant and storage warehouse to Blome, Sinek Co., 139 North Clark St., Chicago, $265,000.

★**Md., Baltimore**—Maryland Meter Works, Saratoga and North St., let contract addition to Deverall-Spencer Co., 1007 Garrett Bldg.

★**Ky., Newport**—The Newport Rolling Mills let contract addition to D. Meinken, 2126 Western Ave., Cincinnati, $50,000.

★**Minn., Minneapolis**—Oldfield Motor Co., 2335 Central Ave., let contract aëroplane motor plant to J. J. Cooper, 715 Andrus Bldg., $150,000.

★**Kan., Kansas City**—Union Pacific Ry. let contract roundhouse, power house, coaling station and turntable pit, brick, concrete and steel, to G. A. Fuller Construction Co., 418 Dwight Bldg., Kansas City, Mo., $200,000.

★**Mo., St. Louis**—W. Pralle, 2200 East Fair Ave., let contract wholesale bakery plant to H. Luehmann, 3442 Iowa Ave., $50,000.

★**Wash., Tacoma**—Todd Shipbuilding Co. let contract plant on tide-flats to Hurley-Mason Co., Hoge Bldg., Seattle, $125,000.

★**Ore., Portland**—Rasmussen & Co. let contract warehouse and other additions on Sullivan's Gulch and East 11th St. to Bentley & Andrews, Bates Dock Bldg., $60,000.

Cal., Fresno—Universal Packing Co., let contract meat-packing plant, offices, garage, machine shops, etc., on State Highway and North Ave. to TREWHITT & SHIELDS, Fresno, $100,000.

Cal., Los Angeles—See "Reinforced Concrete."

Que., Montreal—Imperial Tobacco Co., 900 Antoine St., let contract extensions to factory to A. F. BYERS, 340 University St., $100,000.

Ont., Wallaceburg—Dominion Glass Co. let contract plant to A. GREGORY. About $50,000.

BUILDINGS

Proposed Work

N. H., Laconia—High School—School Dist. appropriated $125,000 to build. F. P. Tilton, member of bd.

N. H., Nashua—High School—Bd. Educ. making plans rebuilding high school recently destroyed by fire. About $200,000. W. T. Towner, 320 5th Ave., New York, Arch.

Mass., Springfield—Hotel—W. H. Burns, 387 Main St. made plans 4-story, 50 x 120-ft. About $100,000. Huestis & Huestis, 145 Chestnut St., arch.

Mass., Westboro—High School—Bd. Educ. made plans 2-story. About $60,000. T. F. Chapin, chn. school comn. Fuller & Delano Co., 44 Front St., Worcester, arch.

R. I., Central Falls—High School—City Council passed appropriation of $100,000 to build.

Conn., Fairfield—Schools—Bd. Educ. made plans 2 schools. S. H. Wheeler, chn. com. W. H. McLean, 110 Tremont St., Boston, arch.

Conn. Stamford—Hotel—H. Hoefer, Main St., made plans 5-story. About $75,000.

N. Y., Canastota—Public Building—Village plans 3-story, 87 x 105-ft. About $50,000. W. T. Towner, 110 Morningside Dr., New York, making plans.

N. Y., Castleton—High School—Bd. Educ. making plans 2-story. About $50,000. A. H. Folmsbee, pres. Loth & White, 130 State St., Albany, arch.

N. Y., Cohoes—School—Bd. Educ. making plans 2-story, Columbia and Bevan St. About $150,000. C. V. Merrick, 51 State St., Albany, cons. archt.

N. Y., Corinth—High School—Bd. Educ. retained Tooker & Marsh, archt. 101 Park Ave., New York, to make plans 2-story, brick. About $75,000 or $90,000. W. C. Randall, Pres.

N. Y., Cortland—Bank, Store and Office—Cortland Savings Bank made plans 4-story, 58 x 68-ft. About $100,000. G. P. Walrad, 111 Main St., pres. Holmes & Winslow, 110 West 40th St., New York, arch.

N. Y., Hilton—School—Bd. Educ. making plans 2-story, 104 x 130-ft. About $65,000. O. A. Green, Pres. C. Ade., 344 East Ave., Rochester, archt.

N. Y., Jamestown—Bank—Bank of Jamestown plans 6-story, 20 x 120-ft. Mowbray & Uffinger, 56 Liberty St., New York, making plans.

N. Y., New York—(Bronx)—Hospital—Bronx Maternity Hospital plans on Intervale Ave. and 165th St. About $100,000. A. Lewisohn, interested.

—Bank and Office—S. W. Barasch, 77 Ridge St., made plans 3-story, 22 x 50-ft. About $50,000. O. Lowinson, 366 5th Ave., archt.

—Manhattan)—Office and Loft—Collegiate Building Corp. plans 12-story office and 50 x 100-ft. loft, 8 West 48th St. About $250,000. H. P. Knowles, 52 Vanderbilt Ave., archt.

—(Manhattan)—School—Buckley School Building Co. plans 5-story, 38 x 92-ft., East 74th St. About $71,000. J. T. Simpson, Essex Bldg., Newark, N. J., archt.

N. Y., Poughkeepsie—Store—L. Platt & Co., Main St., making plans 5-story, brick, Main and Academy St. About $60,000. W. J. Beardsley, 49 Market St., archt.

N. Y., Solvay—Bank Solvay Bank, Milton Ave., made plans 4-story, 40 x 60-ft. Merrick & Randall, S. A. & K. Bldg., Syracuse, archt.

N. Y., Syracuse—Church—Methodist Episcopal Congregation, University Ave., approved plans new church on East Gennessee St. About $100,000. F. W. Revels, arch.

N. Y., Troy—Hospital—Troy Hospital making plans 2 additions. About $60,000. Pember & Campaigne, Troy, archt.

N. J., Asbury Park—Church—First Methodist Episcopal Congregation plans rebuilding. About $90,000.

N. J., Atlantic City—Apartment Hotel—J. Stafford, 1122 Chestnut St., Phila., will build 12-story, 125 x 195-ft. About $150,000. Clinton & Russell, 32 Liberty St., New York, arch.

N. J., Bayonne—High School—Bd. Education rejected bids. New bids. About $262,000.

N. J., Chelsea—(P. O. Atlantic City)—Oceanic Hotel Co. plans hotel sanitarium. About $1,000,000.

N. J., Jersey City—Fire House—City plans on Palisade Ave., Hudson City Sect. About $50,000. M. I. Fagan, City Clk.

N. J., New Brunswick—High School—Bd. Educ. plans on Livingston Ave., About $275,000.

N. J., Passaic—Church and School—Holy Rosary Congregation making plans, concrete and brick. J. F. Kelly, Post-Office Bldg., Arch.

N. J., Princeton—School—Bd. Educ. plans 2-story. About $50,000. J. W. F. Anderson, Cedar Grove, Pres. C. S. Adams, 1509 Arch St., Philadelphia, archt.

Pa., Abington—School—Twp. School Bd. plans election to vote on $50,000 bonds to build school.

Pa., Allentown—Hotel—M. E. Kern and D. G. Dery, owners Hotel Columbia, plan, new building on site of present hotel.

Pa., Boyertown—High School—Bd. Education election May 1 to vote on $75,000 bonds to build high school.

Pa., Lehighton—Club—Lehighton Lodge of Elks made plans. J. J. Howley, Trade Bank Bldg., Scranton, archt.

Pa., Nesquehoning—High School—Town plans. About $100,000.

Pa., Olney—School and Church—Olney Presbyterian Congregation soon to let contract 1-story, 82 x 96-ft. About $80,000. W. H. Wells, 22 Tabor Rd., pastor. Dehring, Okie & Ziegler, Bailey Bldg., Philadelphia, arch.

Pa., Philadelphia—University of Pennsylvania plans 2 additions. About $500,000. F. P. Graves, interested.

Pa., Phila.—Bank—Northwestern National Bank soon to let contract 1-story, 50 x 90-ft. About $200,000. C. Nice, Girard and Ridge Ave., cashier. P. Merz, Pennsylvania Bldg., arch.

Pa., Slatington—High School—Bd. Educ. making plans to rebuild high school recently destroyed by fire. About $75,000.

Pa., Swarthmore—School—Mary Lyon School plans 3-story, 40 x 200-ft., brick and stone addition. H. W. Sellers, Stephen Girard Bldg., Phila., archt.

Pa., Swissvale—High School—Bd. Educ. soon receives bids. About $150,000.

Wash., D. C.—(Official)—Club—Washington Athletic Club soon receives bids on New York Ave. and H St. About $650,000. Milburn, Heister & Co., Union Savings Bank Bldg., archt.

—Bank and Office—Commercial National Bank soon lets contract 9-story, 75 x 100-ft. A. G. Clapham, 14th and G St., N. W., pres. W. B. Wood, 816 Conn Ave., N. W., archt.

Va., Blacksburg—Administration—Virginia Polytechnic Institute plans 3-story 150 x 200-ft. About $50,000. J. D. Edgelstone, pres. Carneal & Johnson, Chamber of Commerce Bldg., Richmond, arch.

Va., Richmond—School—Bd. Educ. made plans 3-story, brick. About $134,000.

W. Va., Welch—Store—C. D. Brewster & Co., made plans, brick and concrete. About $40,000. Pedigo & Gary, Bluefield, archt.

N. C., Greensboro—Club—Y. W. C. A. plans. About $90,000. J. W. Petty, Chn. Com.

N. C., Henderson—(Official)—Bank—First National Bank of Henderson soon receives bids. About $60,000. Milburn, Heister & Co., Union Savings Bank Bldg., Wash., D. C., Arch.

S. C., Newberry—See "Reinforced Concrete."

Ga., Macon—Home—Masons of Georgia making plans. About $50,000. F. O. Miller, Ft. Valley, interested.

Fla., Jacksonville—School—Bd. Education making plans La Villa School. About $60,000. W. R. Ittner, Bd. Educ. Bldg., St. Louis, archt.

Fla., Sarasota—See "Reinforced Concrete."

Miss., Clarksville—Bank—Bank of Clarksville plans. About $50,000.

Miss., Tupelo—Hotel—Tupelo Hotel Co. plans brick. About $60,000.

La., Monroe—Schools—City voted $40,000 bonds to build 2 schools.

La., New Orleans—Hotel—A. Aschaffenburg, and associates, plan 14-story on University Pl. Favrot & Livaudais, Title Guarantee Bldg., archts.

Tenn., Lewisburg—High School)—County plans election to vote on $70,000 bonds to build high school.

Tenn., Nashville—Library—Peabody College plans 3-story, 80 x 170-ft. About $150,000. E. L. Tilton, 52 Vanderbilt Ave., New York, archt.

Tenn., Trenton—High School—City voted $50,000 bonds to build high school.

Ky., Hopkinsville—Store—J. H. Anderson making plans 3-story, brick. J. Waller, archt.

Ky., Lebanon—School—Bd. Educ. made plans. A. W. Myers, clk. C. C. & E. A. Weber, Citizens Bank Bldg., Cincinnati, arch.

Ky., Lexington—Hotel—B. Tracey plans to build hotel to be leased to Kearns, Brandt & Hegarty. About $80,000.

O., Akron—Church—Wabash Ave. Church of Christ Congregation plans. About $50,000.

O., Akron—Club House—Goodyear Rubber Co. plans 4-story on East Market St. About $450,000.

O., Arcanum—High School—City voted $59,500 bonds to build high school.

O., Canton—School—Bd. Educ. retained C. C. and A. L. Thayer, archts., New Castle, Pa., to make plans on Clarendon Ave., N. W. About $85,000.

O., Cleveland—Store and Office—A. & B. Realty Co. made plans 2-story, East 46th St. and Euclid Ave. About $60,000.

O., Cuyahoga Falls—Office and Store—Turner-Vaughan-Taylor Co. plans 4-story, Broad and Portage St.

O., Deshler—School—City will hold election Apr. 17 to vote on $60,000 bonds to build school.

O., Lima—(Official)—Store and Office—G. E. Bluem, 702 West North St., lets contract in about 3 weeks 5-story, 50 x 150-ft., brick, steel and concrete. About $85,000. A. De Curtins, Opera House Bk., arch.

O., Lima—Club—Loyal Order of Moose plans on West and North St. About $80,000.

O., Portsmouth—Church—United Brethren Congregation plans. About $50,000.

Mich., Detroit—St. Marks Methodist Congregation plans 5-story church to include gymnasium, swimming pools, dormitory, club and recreational rooms, on Jefferson and Garland Ave. About $100,000.

Mich., Flint—School Bd. Educ. making plans Malcomson & Higginbothham, Moffatt Bldg., Detroit, archt.

Mich., Howell—School—City voted $100,000 bonds to build central school.

Mich., Stambaugh—High School—Bd. Educ. plans. About $100,000.

Ill., Chicago—Club—Ridgemoor Country Club plans. About $50,000. F. G. Walker, 4712 Beacon St., Arch.

—Hotel—S. T. Cooper made plans 11-story, 143 x 175-ft., Hyde Park Blvd. and 53rd St. About $1,250,000. H. L. Newhouse, 4630 Prairie Ave., archt.

Ill., Rockford—Club—Boys' Club plan. About $60,000. E. E. Smith, Gen. Chn.

Wis., Eau Claire—Hospital—Sacred Heart Hospital making plans addition. About $75,000.

Wis., Fond du Lac—(Official)—School—City defeated $60,000 bond issue to build schools. J. F. Hohensee, city clk.

Wis., Kenosha—Store—Epstein Bros. 209 Main St., plans concrete, brick and steel. About $175,000.

Wis., Racine—Armory—City plans 2-story, 10 x 120-ft. concrete and brick. About $50,000. C. A. Ryba, city clk.

Wis., Milwaukee—Store—H. A. J. Upham, 927 Wells Bldg., plans 2-story, 119 x 154-ft., Martin and Jefferson St. About $80,000.

Wis., Milwaukee—American Household Co. plans 5-story mercantile building, 19th St. and Fond du Lac Ave. About $65,000.

Wis., Mt. Horeb—High School—Bd. Educ. plans concrete, brick and hollow tile. About $75,000. Claude & Stark, arch., 8 South Carrol St., Madison, making plans.

Wis., Waukesha—High School—Bd. Education plans 140 x 150-ft. brick and tile. About $200,000. Van Ryn & De Gelleke, arch., 726 Caswell Blk., Milwaukee, made plans.

Ia., Davenport—Schools—City voted $450,000 bonds to build 3 schools.

Buildings (Continued)

Ia., **Des Moines**—Police Station and Court House—City plans at East 1st St. and Court Ave. H. Susong, city clerk.

Ia., **Des Moines**—Cathedral—Scottish Rite Masons plan, 5-story, 114 x 150-ft. stone and concrete. About $300,000. Keffer & Jones, 610 Youngerman Bldg., archt.

Ia., **Eddyville**—Church—Christian Science Congregation plans. About $75,000.

Ia., **Estherville**—Bank—First National Bank plans, 1-story, 44 x 80-ft. brick and stone. About $75,000. Lytle Co., 101 Masonic Bldg., Sioux City, archt.

Ia., **Fennimore**—City Hall—City plans. About $10,000.

Ia., **Mapleton**—School—Bd. Educ. Consolidated Dist. making plans 2-story, brick and stone. About $95,000. Trunk & Gordon, Donnell Court Bldg., St. Joseph, Mo., archt.

Ia., **Shenandoah**—High School—Bd. Educ. plans 2-story, brick and stone. About $100,000. Berlinghoff & Davis, 416 Security Mutual Life Bldg., Lincoln, Neb., archt.

Minn., Aurora—High School—Bd. Educ. receiving bids in April. About $125,000. Tyrie & Chapman, Auditorium Bldg., Minneapolis, archt.

Minn., Grand Rapids—Hospital—Itasca County retained. F. H. Mosse & Co., Rochester, to make plans, 2-story. About $50,000. Contract soon to be let.

Minn., Mineapolis—Hospital—Norwegian Lutheran Deaconess Hospital plans wing to hospital, 2312 15th Ave., S. About $50,000. C. Morgan, 3319 18th Ave., S., pres.

Minn., Minneapolis—Office—Film Exchange, 416 North 4th St. plans 3-story addition. F. P. Nicoll, 703 Metropolitan Life Bldg., agt. V. F. B. de Brauwere, 824 Plymouth, archt.

Minn., Moorhead—Schools—City plans. About $225,000.

Minn., St. Paul—Church—St. Marks Congregation plans, Dayton and Moore Ave. About $100,000.

Kan., Ft. Scott—School—Bd. Educ. making plans 2-story, brick. About $90,000. W. F. Schmitt, 1634 West 10th St., Oklahoma, archt.

Kan., Hutchinson—Agricultural Hall—Kansas State Fair Asso. plans. About $50,000. C. H. Chandler, State House, Topeka, archt.

Kan., Salina—Salina Business College plans 2-story, 66 x 165-ft. building. About $80,000. O. S. Johnston, pres.

Neb., Lincoln—State Legislature appropriated $700,000 to build 1 wing of proposed new state house.

Neb., Omaha—Auditorium—Omaha Grocers' Asso. plans. About $65,000. J. J. Cameron, secy.

Neb., York—School—Bd. Educ. voted $225,000 bonds to build high school. Berlinghoff & Davis, Lincoln, archt.

S. D., Tripp—Court House—City election Apr. 17, to vote on $65,000 bonds to build court house.

N. D., Fargo—Grade School—Bd. Educ. soon lets contract. About $100,000. Haxby & Braseth, 113 Broadway, archt.

N. D., Fargo—High School—Bd. Educ. plans to rebuild Central High School recently destroyed by fire. About $250,000.

Mont., Billings—Office—L. Mains, and associates, plan 5-story on 1st Ave. and 27th St. About $150,000.

Mont., Bozeman—School—City plans election to vote on $95,000 bonds to build school.

Mont., Deer Lodge—High School—City soon sells $60,000 bonds to build high school.

Mont., Libby—School—Bd. Educ. making plans 3-story. About $50,000. Whitehouse & Price, Spokane, archt.

Mo., Joplin—Hospital—City plans to vote on $60,000 bond issue to build hospital.

Mo., Kansas City—See "Structural Steel."

Mo., St. Louis—School—Bd. Educ. receiving bids in April Hosmer Hall School, 3-story. About $80,000. F. J. Bradshaw, International Bldg., archt.

Mo., Springfield — Hospital — County plans. About $50,000.

Tex., Beaumont—Home—Y. M. C. A. soon lets contract, steel and concrete. About $65,000.

Tex., Dallas—Bank—American Exchange National Bank plans 16-story, Main St. and Scollard Ct. About $800,000.

Tex., Eldorado—Courthouse—Property owners voted $60,000 bonds to build court house.

Tex., Ft. Worth—Hotel—Westbrook Hotel plans 9-story addition. About $300,000. L. W. Huckins, Mgr.

Tex., Hearne—School—Property owners voted $50,000 bonds to build school.

Tex., Sour Lake—School—Bd. Educ. voted $80,000 bonds to build brick school.

Tex., Waxahachie—Bank and Office—Waxahachie National Bank plans 5-story, cement. About $150,000.

Okla., Coalgate—High School—Bd. Education making plans. About $50,000. Ye Planry, Inc., Dallas, archt.

Okla., Enid—High School—Bd. Educ. plans to vote on $50,000 bonds to build high school.

Okla., Oklahoma—Y. M. C. A. making plans 6- and 3-story, 100 x 130-ft. brick and stone. About $200,000. Hawk & Parr, 501 Security Bldg., archt.

Okla., Sapulpa—Office—Clayton Estate plans 4-story, 55 x 150-ft. brick and terra cotta. About $70,000. C. A. Popkin, archt.

Okla., Tulsa—Y. W. C. A. making plans 3-story brick building. About $200,000. C. K. Birdsall, 1002 Commerce Bldg., Kansas City, Mo., archt.

Okla., Tulsa—Office—J. S. Cosden, Daniels Bldg., soon receives bids 14-story, 60 x 100-ft., brick and terra cotta on 4th and Boston St. About $750,000. H. F. Hort, 315 East 10th St., Kansas City, Mo., archt.

Okla., Tulsa—Theater—W. M. Smith making plans 80 x 150-ft. brick and concrete. About $150,000. G. Winkler, 414 Palace Bldg., archt.

Okla., Vinita—Church—Methodist Congregation plans. 60 x 145-ft., brick and stone. About $40,000. Hawk & Parr, Oklahoma, archts.

N. M., Gallup—School—City will hold election Apr. 17 to vote on $50,000 bonds to build schools.

Idaho, Lava Hot Springs—Hotel—W. R. Godfrey plans. About $50,000. C. B. Onderdonk, archt., Pocatello, making plans.

Nev., Fallon—High School—See "Reinforced Concrete."

Ariz., Flagstaff—See "Reinforced Concrete."

Ariz., Glendale—Grammar School—City voted $50,000 bonds to build grammar school.

Ariz., Nogales—Depot—Southern Pacific Co. plans. About $50,000. W. Hood, San Francisco, ch. engr.

Ariz., Phoenix—Exhibition—State plans Palace of Industrial Arts for permanent exhibit purposes. McGee & Crowell, arch., O'Neil Bldg., made preliminary plans. About $125,000.

Wash., Aberdeen—School—Bd. Educ. plans. About $60,000. E. C. Troutman, Aberdeen, archt.

Wash., Spokane—Schools—School Bd. having plans made to build several schools during summer. About $260,000.

Wash., Tacoma—Hotel—C. A. Murray plans. About $150,000. Heath & Gove, National Realty Bldg., archt.

Cal., Fresno—See "Structural Steel."

Calif., Lodi—Theatre—Lodi Investment Co. plans. About $60,000.

Cal., Los Angeles—Store—See "Reinforced Concrete."

Calif., Los Angeles—I. W. Van Nuys, San Francisco, retained Morgan, Walls & Morgan, 1136 Van Nuys Bldg., to make plans 4-story, 150 x 175-ft. mercantile building 7th St. between Grand Ave. and Hope St.

N. S., Halifax—School—Bd. Educ. plans. About $125,000. S. J. Wilson, 81 Sackville St., secy. W. J. Busch, 60 Bedford Rd., archt.

Bids Desired

O., Galion—High School—Until Apr. 20 by Bd. Educ., 2-story. About $120,000. C. C. Coyle, clk. Howard & Merriam, 8 East Broad St., Columbus, archt.

Neb., Omaha—School—Until Apr. 19 by Bd. Educ.; 2-story, 67 x 101-ft., brick and stone. About $50,000. W. T. Bourke, secy.

Mo., Fulton—Chapel—Reported desired after May 15 by Westminster College. About $55,000. Holmes & Flinn, 8 South Dearborn St., Chicago, archt.

Mo., Kahoka—High School—Until Apr. 23 by Bd. Educ. for 3-story, 59 x 124-ft. brick and stone. About $50,000. J. N. Woodruff, secy.

Va., Claremont—School—Until Apr. 21 by Bd. Educ.; brick. B. W. Shaw, secy.

Prices and Contracts Awarded

Conn., Willimantic—Business Block—Jordan Bros received low bids on Main St. from Torrington Building Co., 197 Water St., Torrington, $134,578. T. J. Pardy Construction Co., 265 Nichols St., Bridgeport, $134,886. J. H. Grosier Co., 721 Main St., Hartford, $135,419.

★N. Y., Syracuse—(Official)—State Fair Comm., 428 South Salina St., let general contract Horse Exhibit Building, to Feeney & Sheehan Building Co., State House, Albany, $74,800; structural steel to Syracuse Engineering Co., Inc., 124 Rosenbloom Block., $25,460.

★Pa., Bethlehem—School—School Bd. let contract to H. E. Stoudt, 116 2nd Ave., $56,063.

★Pa., Exeter—(Official)—High School—Bd. Educ. let contract to A. Broslin, Summit Hill, $50,000.

★Pa., Phila.—(Official)—Library—City let contract main building of Free Library of Philadelphia to G. A. Fuller Co., 1130 Widener Bldg., $2,285,000.

—City let contract addition to Byberry Institution to E. F. Fonder, Land Title Bldg., $620,000.

★W. Va., Huntington—Hotel—J. S. Farr let contract to Ferro Concrete Co., Atlanta, Ga., $250,000.

★S. C., Greenwood—Church—Bldg. Com. Main St. Methodist Church let contract to C. L. Rounds, $50,000.

★Tenn., Kingsport—(Official)—Station—Carolina Clinchfield & Ohio Ry. let contract to A. L. Marshall, Roanoke, Va.

★O., Cleveland—Store—A. & B. Realty Co. let contract, Euclid Ave. and East 46th St., to J. R. Gloyd Construction Co., 715 Prospect Ave., $125,000. Noted Apr. 5.

★Ill., Chicago—Office and Theater—A. H. Woods Theatre Co. let contract 10-story, North Dearborn St., to Longacre Construction Co., 11 East 42nd St., New York, $400,000.

★Wis., Racine—Exchange—Wisconsin Telephone Co., let contract to P. Riesen Sons, 1018 Humboldt Ave., Milwaukee, $100,000.

★Ia., Sergeant Bluff—School—Bd. Educ. let contract 2-story, brick and stone, to Dubel & Anderson, 514 Jackson St., Sioux City, $75,000.

★Ia., Sioux City—Office—Davidson Realty Co. let contract 5-story, 125 x 150-ft., brick and rein.-con., to F. T. Houx & Son, 2nd and Water St., About $125,000.

★Ia., Waukee—High School—Bd. Educ. let contract 2-story, brick and cut stone, to Western Construction Co., Iowa City, $50,000.

★Minn., Minneapolis—Inter-City Realty and Loan Co., Swedish American Bank Bldg., St. Paul, let contract 3-story, 75 x 130-ft. to Fleischer Construction Co., Plymouth Bldg., $125,000.

★Kan., Arkansas City—High School—Bd. Educ. let contract addition and remodeling to Vandenberg & Pauley, Wichita, $80,000.

★N. D., Crosby—Jail and Courthouse—County let contract to Elson-Williams Construction Co., 830 Hennepin Ave., Minneapolis, $81,000.

★N. D., Fargo—Store—Smith, Foliett & Crowl let contract 4-story, 50 x 108-ft. to T. Powers.

★Mont., Poplar—Office—Lohmiller Mortgage Loan Co. let contract to E. Olsen, $50,000.

★Mo., Kansas City—Theater, Store and Office—J. C. Wirthman let contract 2-story 30 x 90-ft. brick 31st St. and Troost Ave. to J. R. Vasant Construction Co., Kansas City, $250,000.

★Tex., Denton—Dormitory—Bd. Regents, State College of Industrial Arts, let contract to Buchanan & Gilder, 1309 Southwestern Life Bldg., Dallas, $124,000.

★Tex., El Paso—Store and Hotel—I. Laskin let contract 3-story to McGregor & Henger, Mills Bldg.

★Idaho, Odaho Falls—High School—Bd. Educ. let contract to North Pacific Construction Co., Pocatello, $47,825.

★Ark., Little Rock—Office and Lodge—A. O. U. W. let contract 10 story, to G. W. Fair, Little Rock.

★Cal., Fresno—Office and Bank—Bank of Italy, Montgomery and Clay St., San Francisco, let contract 8-story, 50 x 100-ft., rein.-con., steel and brick, on Tulare and J St., to R. L. Felchlin Co., Fresno, $225,000.

Cal., San Francisco—Hospital—St. Francis Hospital let contract 6-story, Bush and Hyde St., to P. R. Ward, 110 Jessie St., $93,900.

FEDERAL GOVERNMENT WORK

Proposed Work

Pumping Plant—Pa., Phila.—Bureau Yards and Docks, Navy Dept., Wash., plans for use at dry docks at Phila. and Norfolk Navy Yards. About $200,000 each.

Hospital Buildings—Wash., D. C.—Bureau Yards and Docks, Navy Dept. plans contagious wards at Naval Hospitals at Newport, R. I., Great Lakes, Ill., and Portsmouth, Va., estimated cost of all, $58,000.

Hangars—Fla., Pensacola—Bureau Yards and Docks, Navy Dept., Wash., plans hangars and erecting shops at Naval Aeronautical Station. About $240,000.

Crane, etc.—La., New Orleans—Bureau Yards and Docks, Navy Dept., Wash., plans 20-ton floating crane, cost, $30,000, and storage shed, $45,000.

Bids Desired

Launchway—R. I., Narragansett Pier—Until May 2 by Treasury Dept., U. S. Coast Guard, Wash., concrete and steel launchway at Station No. 54.

Rubble Mounds—N. Y., New York—Until May 3 by U. S. Engr. Office, Room 710 Army Bldg., 39 Whitehall St., for constructing in front of breakwaters, Plattsburgh Harbor, N. Y., and Burlington Harbor, Vt.; advertised in this issue.

Post Office—Pa., Media—Until May 8 by J. A. Wetmore, act. superv. arch., Treasury Dept., Wash.

Hydraulic Pumps and Accumulators—Va., Norfolk—Until Apr. 23 by Bureau Yards and Docks, Navy Dept., Wash., for 2 motor-driven hydraulic pumps and 2 accumulators at Navy Yard, Norfolk, also 1 motor-driven hydraulic pump and 1 accumulator at Navy Yard, Phila. F. R. Harris, ch.

Prices and Contracts Awarded

★Indicates award of contract.

★**Buildings—Mass., Hingham**—Bureau Yards and Docks, Navy Dept., Wash., let contract to Kennedy & Peterson Construction Co., Winthrop Bldg., Boston, quarters for guards, $4750, 3 magazine buildings, 1 shellhouse and 1 storehouse, $147,200. Noted Apr. 5.

★**Post Office—Mass., Reading**—J. A. Wetmore, act. superv. arch., Treasury Dept., Wash., let contract to J. Miles & Son Co., 393 Main St., Worcester, $49,688.

Buildings—N. Y., Buffalo—U. S. Engr. Office, Buffalo, rejected only bid received Mar. 15 office, storehouse and 6 operating houses at Black Rock Lock and storehouse at Ferry St. bridge.

★**Dry Dock—Pa., Phila.**—Bureau Yards and Docks, Navy Dept., Wash., let contract Dry Dock No. 3 to Maryland Dredging and Contracting Co., Fidelity Bldg., Baltimore, $2,300,000.

Shops—Pa., Phila.—Bureau Yards and Docks, Navy Dept., Wash., received bids machine and electrical shop, Phila. Navy Yard from McClintic-Marshall Co., Morris Bldg.; J. H. Miller, Inc., Eutaw & Franklin St., Baltimore; F. W. Mark Construction Co., Inc., Finance Bldg., Conners Bros. Co., 64 West 8th St., New York; P. F. Gormley Co., Union Trust Bldg., Wash.

★**Slips—Pa., Phila.**—Bureau Yards and Docks, Navy Dept., Wash., let contract shipbuilding slips Nos. 2 and 3 to Foundation Co., Woolworth Bldg., New York, $464,870.

Buildings—Wash., D. C.—Dist. Comrs., Room 509 Dist. Bldg., received low bids Mar. 30 fish market and appurtenant buildings on Water St. between 11th and 12th St., S. W., from Warren-Moore & Co., Commercial Trust Bldg., Phila., $115,544; Melton Construction Co., Real Estate Trust Bldg., Wash., $115,995; J. Henry Miller, Eutau and Franklin St., Inc., Baltimore, $119,700.

Iron Posts—Wash., D. C.—Dept. Interior, General Land Office, received low bids Apr. 4 furnishing and delivering (a) 50,000 small, (b) 25,000 large tubular iron posts with brass caps for public land survey corners for use during fiscal year 1918 from General Heating and Ventilating Co., Milwaukee, (a) $33,945, (b) $24,295; H. Bownard Bronze Co., 20 Exchange Pl., New York, (a) $37,500, (b) $24,295; Gillete, Eaton & Squire, Lake City, Minn., (a) $39,225, (b) $28,340.

★**Power-Plant Equipment—Wash., D. C.**—Bureau Yards and Docks, Navy Dept. let contract in Navy Yard to W. G. Cornell Co., 923 12th St., N. W., $254,000.

Shipbuilding Slip—Va., Norfolk—Bureau Yards and Docks, Navy Dept., Wash., rejected bids. Noted Apr. 5.

Riprap Stone—Tenn., Memphis—Mississippi River Comn., U. S. Engr. Office, Custom House received low bids Mar. 19, about 25,000 tons, from Ward & Brown, Little Rock, Ark., $12,250; M. S. Park, Clarksdale, Ark., $13,500; Fitzgerald & Gately, St. Louis, $14,750.

★**Horses and Props—Ky., Louisville**—U. S. Engr. Office let contract at Navigable Pass, Dam No. 43, Ohio River, to American Bridge Co., Union Trust Bldg., Cincinnati, $35,240.

★**Lock Gates—Mich., Detroit**—U. S. Engr. Office, Detroit, let contract steel lock gates for 4th lock, St. Marys Falls Canal, to Milwaukee Bridge Co., 1400 34th St., Milwaukee, $229,970. Noted Apr. 5.

★**Revetment—Mich., Grand Rapids**—U. S. Engr. Office let contract pile substructure and concrete superstructure north revetment at Ludington Harbor to N. P. Nelson, Muskegon, $19,499.

★**Revetment—Mich., Grand Rapids**—U. S. Engr. Office let contract repairing pile substructure and constructing concrete superstructure on north revetment at St. Joseph Harbor to A. M. Warner, St. Joseph, $16,245.

Caisson Breakwater, etc.—Wis., Milwaukee—U. S. Engr. Office rejected bids opened Mar. 9 for caisson breakwater, pile pier, removing old timber crib pier, moving timber cribs and dredging at Racine Harbor.

Laterals—Wyo., Powell—Dept. Interior, Wash., received low bids Mar. 15 laterals involving 225,000-cu.yd. excavation on Shosone Project near station of Frannie Mantua and Garland on Chicago, Burlington & Quincy R.R., (a) Schedule 1, (b) Schedule 2, (c) Schedule 3, (d) Schedule 4, as follows: Lynn Bros., Lovell, (a) $7080, (b) $9688, (c) $19,560, (d) $12,170; Hayden Bros., Great Falls, Mont., (a) $9200, (b) $14,230, (c) $22,325, (d) $12,300; H. S. Jolley, Lovell, (a) $7670, (c) $19,840; N. O. Mortenson, Crowley, (d) $9440.

Jetty Work—Tex., Port Aransas—U. S. Engr. Office, Galveston, rejected bids opened Jan. 24.

MISCELLANEOUS

Proposed Work

Tipple—Ky., Hazard—See "Reinforced Concrete."

Parks—O., Cleveland—City planning park improvements; cost about $141,000. R. Hoffman, city engr.

Subway—O., Cleveland—City will hold election in November to vote on $5,000,000 bonds to extend high level bridge subway from West 6th St. and Superior Ave. to Public Sq. R. Hoffman, city engr.

Park—Mich., Manistique—(Official)—City defeated $12,000 bonds for park improvements.

Park—Kan., Independence—(Official)—City voted bonds to build. G. E. Weaver, city engr.

Dock—Wash., Bellingham—City voted $65,000 bonds to build dock on Pine St. Contract soon to be let. W. H. Norton, city engr.

Bids Desired

Station Platforms—Pa., Phila.—(Official)—Until Apr. 17 by W. S. Twining, dir. Dept. City Transit, 754 Bourse Bldg., additional steel superstructure and appurtenant work to provide station platforms on Frankford Elevated Ry. at Huntingdon St., Contract No. 520.

Road Roller—La., New Orleans—Until Apr. 17 by Comr. Pub. Finance, for gasoline road roller with pneumatic control scarifier attachment. W. J. Hardee, city engr.

Prices and Contracts Awarded

★Indicates award of contract.

★**Seawall—N. J., Longport**—Boro. let contract to Sutton & Carson and E. L. Bader, Atlantic City, $383,000. Noted Apr. 5.

★**Bulkhead—N. J., Trenton**—City Comn. let contract along Delaware River near Cherry St. to L. J. Sieling, Red Bank, $69,670.

Subway—Pa., Phila.—Dept. City Transit received low bids Broad St. Subway (a) Contract No. 103, (b) Contract No. 104, (c) Contract No. 204, from Philadelphia Subway Construction Co., 712 Lincoln Bldg., (a) $2,846,240, (b) $2,855,941, (c) $3,494,968; Smith, Hauser & MacIsaac Co., Inc., 18 East 41st St., New York, (a) $3,093,103, (b) $3,167,705, (c) $3,511,912; Keystone State Construction Co., Pennsylvania Bldg., (a) $2,815,490, (b) $2,917,320, (c) $3,336,400.

★**Turntable—Pa., Rutherford**—(P. O. Paxtang)—Rutherford Engine House Shop let contract to A. L. Carhart, at $18,000, for 100 ft. steel and conc. turntable.

Locomotive Crane—O., Cleveland—(Official)—City received low bid from Brown Hoisting Co., 4403 St. Clair Ave., N. E., $11,000.

★**Breakwater—Wis., Milwaukee**—City let contract 900-ft. additional at South Shore Park to E. E. Gillen Co. 1115 Wells Bldg.

★**Revetment—Wis., Milwaukee**—City let contract stone revetment work along lake front from Wisconsin St. to harbor entrance to Great Lakes Dredge and Dock Co., 491 Canal St., $140,000.

Proposals

For Proposals Advertised See Pages 35, 36, 37, 38, 39, 40

WATER-WORKS

Bids Close.		See Eng. News-Record.
Apr. 15.	Sherburne, N. Y.	Apr. 5
Apr. 17.	Salt Lake City, Utah	Apr. 5
Apr. 18.	Akron, O.	Apr. 5
Apr. 18.	Clovis, N. M.	Apr. 5
Apr. 23.	Rayne, La.	Apr. 5
Apr. 24.	Trenton, N. J.	Apr. 12
Apr. 25.	Westchester, Pa.	Apr. 12
Apr. 27.	Auburn, N. Y.	Apr. 5
	Adv. Apr. 5.	
May 1.	Mendham, N. J.	Apr. 5

SEWERS

Apr. 16.	Los Angeles, Cal.	Apr. 5
Apr. 17.	Toronto, Ont.	Apr. 12
Apr. 19.	Oakland, Cal.	Apr. 12
Apr. 19.	Bozeman, Mont.	Apr. 12
Apr. 19.	Syracuse, N. Y.	Apr. 5
	Adv. Apr. 5.	
Apr. 20.	Ada, Minn.	Apr. 5
Apr. 20.	Beaufort, N. C.	Apr. 12
Apr. 23.	Hanover, Pa.	Apr. 12
Apr. 23.	Winona, Minn.	Apr. 12
Apr. 24.	Barberton, O.	Apr. 5
Apr. 27.	Valparaiso, Ind.	Apr. 5

STRUCTURAL STEEL WORK

Apr. 16.	Coalinga, Cal.	Apr. 12
Apr. 30.	Leavenworth, Kan.	Apr. 12
Apr. 20.	Austin, Minn.	Apr. 12
Apr. 21.	Winchester, Ill.	Apr. 12
Apr. 23.	Elizabeth, N. J.	Apr. 12

REINFORCED CONCRETE

Apr. 19.	Lancaster, O.	Apr. 12
May 1.	Downington, Pa.	Apr. 12
May 15.	Hazard, Ky.	Apr. 12

STREETS AND ROADS

Apr. 14.	Ann Arbor, Mich.	Apr. 5
Apr. 15.	Plainview, Tex.	Apr. 5
Apr. 16.	Fairmont, W. Va.	Apr. 5
	Adv. Apr. 5.	
Apr. 16.	Bradford, Pa.	Apr. 12
Apr. 16.	Plainview, Tex.	Apr. 12
Apr. 16.	Marianna, Ark.	Apr. 12
Apr. 16.	Colfax, Wash.	Apr. 12
Apr. 16.	Camden, N. J.	Apr. 12
Apr. 17.	Cudahy, Wis.	Apr. 5
Apr. 17.	Pittsburgh, Pa.	Apr. 5
Apr. 18.	Ardmore, Okla.	Apr. 12
Apr. 18.	Passaic, N. J.	Apr. 12
Apr. 19.	Bozeman, Mont.	Apr. 12
Apr. 20.	Beaufort, N. C.	Apr. 5
Apr. 20.	Elkins, N. C.	Apr. 5
Apr. 20.	Waukesha, Wis.	Apr. 5
Apr. 21.	New Albany, Ind.	Apr. 12
Apr. 21.	Morris, Minn.	Apr. 5
Apr. 23.	Everett, Wash.	Apr. 12
Apr. 23.	South Bethlehem, Pa.	Apr. 5
	Adv. Apr. 5.	
Apr. 24.	Franklin, Va.	Apr. 5
Apr. 24.	Cambridge, O.	Apr. 12
Apr. 25.	Blue Earth, Minn.	Apr. 5
Apr. 25.	Alexandria, O.	Apr. 5
Apr. 30.	Grove Hill, Ala.	Apr. 5

EXCAVATION AND DREDGING

Apr. 24.	Parkertown, N. J.	Apr. 5
Apr. 25.	Winterset, Ia.	Apr. 12
May 1.	Quincy, Ill.	Apr. 5
	Adv. Apr. 5.	

INDUSTRIAL WORKS

Apr. 15.	Phila., Pa.	Apr. 5

BUILDINGS

Apr. 15.	Kitchener, Ont.	Apr. 5
Apr. 16.	Ames, Ia.	Apr. 5
Apr. 17.	Whitesburg, Ky.	Apr. 5
Apr. 20.	Forsyth, Mont.	Apr. 5
Apr. 20.	Sacramento, Cal.	Apr. 5
Apr. 20.	Galion, O.	Apr. 12
Apr. 23.	Kahoka, Mo.	Apr. 12
May 15.	Fulton, Mo.	Apr. 12

FEDERAL GOVERNMENT WORK

Apr. 14.	Wash., D. C.	Apr. 5
Apr. 14.	Panama	Apr. 12
Apr. 16.	Wash., D. C.	Apr. 5
	Adv. Apr. 5.	
Apr. 16.	Harbor Beach, Mich.	Apr. 5
	Adv. Apr. 5.	
Apr. 18.	Seward, Alaska	Apr. 12
Apr. 20.	Panama	Apr. 12
Apr. 21.	Wash., D. C.	Apr. 5
	Adv. Apr. 5.	
Apr. 23.	Norfolk, Va.	Apr. 12
Apr. 23.	Portland, Me.	Apr. 5
	Adv. Apr. 5.	
Apr. 23.	Indian Head, Md.	Apr. 5
Apr. 23.	Indian Head, Md.	Apr. 12
Apr. 23.	Wash., D. C.	Apr. 5
Apr. 23.	Pensacola, Fla.	Apr. 5
Apr. 25.	Little Rock, Ark.	Apr. 5
	Adv. Apr. 5.	
Apr. 27.	Portland, Me.	Apr. 5
Apr. 30.	Wheeling, W. Va.	Apr. 5
	Adv. Apr. 5.	
Apr. 30.	Dallas, Tex.	Apr. 5
	Adv. Apr. 5.	
Apr. 30.	Newport, R. I.	Apr. 12
Apr. 30.	Cape Charles, Va.	Apr. 12
May 1.	Sault Ste. Marie, Mich.	Apr. 5
	Adv. Apr. 5.	
May 1.	Powell, Wyo.	Apr. 5
	Adv. Apr. 5.	
May 2.	Narragansett Pier, R. I.	Apr. 12
May 3.	Port Huron, Mich.	Apr. 5
	Adv. Apr. 5.	
May 3.	New York, N. Y.	Apr. 12
May 4.	Chattanooga, Tenn.	Apr. 5
	Adv. Apr. 5.	
May 7.	Beaver Dam, Wis.	Apr. 5
May 7.	Pearl Harbor, Hawaii	Apr. 5
May 8.	Media Pa.	Apr. 12
May 11.	Boise, Idaho	Apr. 5
May 11.	Charleston, Ill.	Apr. 12
May 11.	Glenwood, Ia.	Apr. 12
May 14.	Fitzgerald, Ga.	Apr. 12
May 15.	Bolinas, Cal.	Apr. 5
	Adv. Apr. 5.	
May 16.	Athens, Tenn.	Apr. 12
May 17.	Cedar Falls, Ia.	Apr. 12

MISCELLANEOUS

Apr. 17.	Phila., Pa.	Apr. 12
Apr. 17.	New Orleans	Apr. 12
Apr. 18.	New York, N. Y.	Apr. 5
Apr. 19.	Lebanon, Pa.	Apr. 5
	Adv. Apr. 5.	
Apr. 23.	Stillwater, Minn.	Apr. 5
Apr. 25.	Pikeville, Ky.	Apr. 5
May 7.	Pine Bluff, Ark.	Apr. 5

BUILDING OPERATIONS FOR MARCH

Following is a list of contracts awarded published by the F. W. Dodge Co. for:

New York, New England, New Jersey, Pennsylvania, Maryland, Delaware, District of Columbia, Virginia, Ohio, West Virginia, Illinois, Indiana, Iowa, Wisconsin, Michigan, Minnesota, North and South Dakota, and portions of Missouri and eastern Kansas:

Contracts awarded January 1 to April 1, 1917	$318,785,000
" " " " " " 1916	223,645,000
" " " " " " 1915	167,637,300
" " " " " " 1914	149,032,000
" " " " " " 1913	196,788,000
" " " " " " 1912	154,413,500
" " " " " " 1911	173,904,313
" " " " " " 1910	172,922,809

NEW YORK STATE AND NORTHERN NEW JERSEY

Contracts awarded January 1 to April 1, 1917	$68,652,000
" " " " " " 1916	27,269,000
" " " " " " 1915	34,634,500
" " " " " " 1914	25,688,000
" " " " " " 1913	76,658,000
" " " " " " 1912	43,317,500
" " " " " " 1911	46,309,000
" " " " " " 1910	56,972,000

For the larger territory covered it is noticed that the three months of 1917 are ahead of any year for the past seven, the nearest one being 1916, which is $95,000,000 less than for this year. The smaller territory is ahead of all years but 1913, which was $8,000,000 larger than 1917 and $20,000,000 ahead of 1910, the next largest year. The contracts for the large territory awarded during 1917 total $132,744,000 against $95,192,000 in February and $90,849,000 in January. The smaller territory had contracts awarded during March totaling $26,424,000 against $20,370,000 in February and $21,858,000 in January. These figures show that whereas New York and New Jersey are in a prosperous condition, the Central States are away ahead of them proportionately over previous years.

PIPE, CINCINNATI, OHIO.

Bids were received by Dept. Pub. Ser. for laying cast-iron pipe in various streets during year from (A) J. J. Brown; (B) Cavanaugh & Co.; (C) J. Curley & Co. The item bids were as follows:

	A	B	C
1,000 lin.ft. 4-in. unimproved streets	$0.75	$0.40	$0.45
500 lin.ft. 4-in. water-bound macadam	.75	.40	.50
100 lin.ft. 4-in. special binder macadam	.75	.40	.60
100 lin.ft. 4-in. boulder paving	.75	.80	.60
100 lin.ft. 4-in. granite paving	.75	.80	.90
100 lin.ft. 4-in. brick paving	.75	1.00	1.00
100 lin.ft. 4-in. asphalt paving	1.00	.50	1.50
100 lin.ft. 4-in. wood block paving	1.00	.50	1.00
100 lin.ft. 4-in. unimproved sidewalk	.75	.40	.40
100 lin.ft. 4-in. cement sidewalk	1.00	.02	.50
100 lin.ft. 4-in. brick sidewalk	.75	.02	.50
20,000 lin.ft. 6-in. unimproved streets	.75	.65	.58
20,000 lin.ft. 6-in. water-bound macadam	.75	.65	.58
1,000 lin.ft. 6-in. special binder macadam	.75	.90	.80
200 lin.ft. 6-in. boulder paving	1.00	.95	.90
200 lin.ft. 6-in. granite paving	1.00	1.00	1.40
200 lin.ft. 6-in. brick paving	1.00	1.35	1.50
200 lin.ft. 6-in. asphalt paving	1.25	1.75	2.00
200 lin.ft. 6-in. wood block paving	1.25	1.35	1.75
200 lin.ft. 6-in. unimproved sidewalk	.75	.45	.50
200 lin.ft. 6-in. cement sidewalk	1.00	.02	1.25
200 lin.ft. 6-in. brick sidewalk	.75	.02	.90
1,000 lin.ft. 8-in. unimproved streets	.75	.80	.60
1,000 lin.ft. 8-in. water-bound macadam	.80	.75	.75
100 lin.ft. 8-in. special binder macadam	.75	.95	.90
100 lin.ft. 8-in. boulder paving	1.00	.75	1.00
100 lin.ft. 8-in. granite paving	1.00	.95	1.50
100 lin.ft. 8-in. brick paving	1.00	1.30	1.60
100 lin.ft. 8-in. asphalt paving	2.00	1.85	1.75
100 lin.ft. 8-in. wood block paving	2.00	1.40	1.80
100 lin.ft. 8-in. unimproved sidewalk	.75	.45	.60
100 lin.ft. 8-in. cement sidewalk	1.50	.02	1.40
100 lin.ft. 8-in. brick sidewalk	.85	.02	1.00
500 lin.ft. 10-in. unimproved streets	.80	.85	.70
500 lin.ft. 10-in. water-bound macadam	.90	.90	.85
200 lin.ft. 10-in. special binder macadam	.90	.90	1.00
100 lin.ft. 10-in. boulder paving	.90	.90	1.50
100 lin.ft. 10-in. granite paving	1.00	1.25	1.60
100 lin.ft. 10-in. brick paving	1.00	1.00	1.70
100 lin.ft. 10-in. asphalt paving	2.00	1.70	1.80
100 lin.ft. 10-in. wood block paving	2.00	.02	1.90
100 lin.ft. 10-in. unimproved sidewalk	.80	.50	.70
100 lin.ft. 10-in. cement sidewalk	1.20	.02	1.50
100 lin.ft. 10-in. brick sidewalk	1.00	.02	1.10
100 lin.ft. 12-in. unimproved streets	.90	.70	.90
100 lin.ft. 12-in. water-bound macadam	1.00	.90	1.10
100 lin.ft. 12-in. special binder macadam	1.00	.90	1.30
100 lin.ft. 12-in. boulder paving	1.00	.70	1.40
100 lin.ft. 12-in. granite paving	1.25	1.50	1.80
100 lin.ft. 12-in. brick paving	1.25	1.35	2.00
100 lin.ft. 12-in. asphalt paving	2.00	1.75	2.00
100 lin.ft. 12-in. wood block paving	2.00	1.25	2.20
100 lin.ft. 12-in. unimproved sidewalk	.90	.75	.90
100 lin.ft. 12-in. cement sidewalk	1.25	.02	1.75
100 lin.ft. 12-in. brick sidewalk	1.00	.02	1.40
500 cu.yd. additional excavation	.25	.02	1.00
1,000 cu.yd. rock excavation	.01	.02	1.00
400 cu.yd. brickwork	.01	15.00	15.00
150 cu.yd. concrete	.01	7.50	8.00
1,000 lb. steel	.01	.04	.25
1,500 tons hauling	1.00	2.00	1.00
500 lin.ft. removing existing mains	.25	.35	.20
100 lin.ft. changing ¾-in. branches	3.00	5.00	3.00
25 changing 1-in. branches	3.00	2.00	6.00
25 changing 1¼-in. branches	3.00	2.00	5.00
10 changing 2-in. branches	3.00	2.00	7.00
10 changing 3-in. branches	3.00	3.00	10.00
100 4, 6 and 8-in. valve chambers, complete	25.00	20.00	35.00
50 10 and 12-in. valve chambers, complete	30.00	25.00	40.00
10 16 and 20-in. valve chambers, complete	35.00	30.00	60.00
2 24-in. valve chambers, complete	1.00	35.00	75.00
Extended totals	$46,873	$48,971	$51,275

IRRIGATION, OTIS ORCHARD, WASH.

Bids were received by Otis Orchards Irrigation Dist. for improving distribution system from (A) H. Pederson Construction Co.; (B) J. A. Fletcher & Co.; (C) O. N. Wolfe & Co. The item bids were as follows:

	A	B	C
30,000 cu.yd. excavation and backfill	$0.35	$0.44	$0.57
20 ft. 6-in. steel pipe, in place	1.20	1.20	1.35
20 ft. 8-in. steel pipe, in place	1.60	1.60	1.80
60 ft. 10-in. steel pipe, in place	3.20	3.00	2.90
80 ft. 12-in. steel pipe, in place	3.70	3.50	3.65
20 ft. 15-in. steel pipe, in place	4.80	4.00	4.25
40 ft. 16-in. steel pipe, in place	5.25	4.50	4.50
100 6-in. delivery valves, in place	4.00	3.50	4.20
250 8-in. delivery valves, in place	5.00	5.00	5.00
10 8-in. sluice valves, in place	4.00	3.00	10.30
20 10-in. sluice valves, in place	5.00	3.50	11.25
10 12-in. sluice valves, in place	6.00	4.25	12.00
5 15-in. sluice valves, in place	10.00	10.00	16.50
1 18-in. sluice valve, in place	15.00	24.00	19.00
1,000 ft. 18-in. vertical pipe, in place	.75	.70	.88
400 ft. 24-in. vertical pipe, in place	1.25	1.10	1.37
Control Chamber, Complete			
14,000 ft. 6-in. No. 2 vitrified clay pipe, in place	.15	.171	.20
60,000 ft. 8-in. No. 2 vitrified clay pipe, in place	.20	.238	.27
33,000 ft. 10-in. No. 2 vitrified clay pipe, in place	.30	.315	.34
22,000 ft. 12-in. No. 2 vitrified clay pipe, in place	.42	.418	.44
14,000 ft. 15-in. No. 2 vitrified clay pipe, in place	.65	.647	.60
1,900 ft. 18-in. No. 2 vitrified clay pipe, in place	.93	1.26	.88
1,300 ft. 24-in. No. 2 vitrified clay pipe, in place	1.60	1.69	1.37
70 pieces, 6-in. vitrified clay pipe specials, in place	.60	1.00	.62
300 pieces, 8-in. vitrified clay pipe specials, in place	.82	1.50	1.83
120 pieces, 10-in. vitrified clay pipe specials, in place	1.10	2.00	2.86
70 pieces, 12-in. vitrified clay pipe specials, in place	1.60	2.50	1.87
40 pieces, 15-in. vitrified clay pipe specials, in place	2.60	4.00	2.88
5 pieces, 18-in. vitrified clay pipe specials, in place	3.25	6.00	3.25
5 pieces, 24-in. vitrified clay pipe specials, in place	6.50	8.00	6.50
14,000 ft. 6-in. concrete pipe, in place	.18	.139	.20
60,000 ft. 8-in. concrete pipe, in place	.25	.205	.27
33,000 ft. 10-in. concrete pipe, in place	.35	.274	.34
22,000 ft. 12-in. concrete pipe, in place	.44	.377	.44
14,000 ft. 15-in. concrete pipe, in place	.70	.578	.60
1,900 ft. 18-in. concrete pipe, in place	.85	.768	.88
1,300 ft. 24-in. concrete pipe, in place	1.50	1.312	1.37
70 pieces 6-in. concrete pipe specials, in place	.60	.90	.62
300 pieces 8-in. concrete pipe specials, in place	.82	1.10	1.83
120 pieces 10-in. concrete pipe specials, in place	1.10	1.50	2.86
70 pieces 12-in. concrete pipe specials, in place	1.60	2.00	1.87
40 pieces 15-in. concrete pipe specials, in place	2.60	1.12½	2.88
5 pieces 18-in. concrete pipe specials, in place	5.25	5.00	3.25
5 pieces 24-in. concrete pipe specials, in place	6.50	10.00	6.50
3,900 ft. 16-in. wood pipe, in place	.90	.75	.72
3,900 ft. 16-in. wood pipe, creosoted, in place	1.20	1.10	1.01
Extended totals clay pipe and wood pipe	$65,097	$71,184	$79,287
Extended totals concrete pipe and wood pipe	$71,025	$63,772	$79,287
Extended totals clay pipe and creosoted wood pipe	$66,267	$72,549	$80,418
Extended totals concrete pipe and creosoted wood pipe	$72,195	$65,136	$80,418

SEWER, NEZPERCE, IDAHO

Bids were received by city Mar. 7 for sewer system from (A) SECURITY BRIDGE CO., Lewiston National Bank, Lewiston (awarded contract); (B) G. A. Raven, 818 Mechanics Bldg., San Francisco; (C) Elliott Contract Co., 302 McKay Bldg., Portland; (D) W. L. Geist, St. Maries, $30,031; (E) G. M. Payne, 724 East Mission Ave., Spokane, $30,117; (F) Illinois Steel Bridge Co., Hutton Bldg., Spokane, $33,851; (G) J. A. Fletcher & Co., 823 Greene Bldg., Seattle, $39,397. The item bids of the 3 lowest bidders were as follows:

	A	B	C
16,000 lin.ft. of 8-in. vitrified pipe sewer in place	$0.65	$0.72	$0.70
5,500 lin.ft. of 10-in. vitrified pipe sewer in place	.69	.84	.80
1,200 lin.ft. 12-in. vitrified pipe sewer in place	.78	.90	.90
3,000 lin.ft. 15-in. vitrified pipe sewer in place	1.02	1.20	1.00
60 manholes complete	77.00	60.00	50.00
15 lampholes complete	6.00	8.00	20.00
5 flushtanks complete	110.00	90.00	150.00
Septic tank complete	2,248.00	3,000.00	3,000.00
700 cu.yds. of solid rock	4.00	1.00	3.00
Price per cu.yd. for extra or less trenching than shown	.65	.20	.50
Price per cu.yd. for extra or less concrete than shown	16.50	12.00	10.00
Extended totals	$28,499	$28,690	$28,830

BRIDGE, ANN ARBOR, MICH.

Bids were received by city for bridge over Huron River on Broadway, (1) with roadway paving, (2) without roadway paving, from (A) J. P. Rusche, Grand Rapids; (B) A. H. Prange, Grand Rapids; (C) B. Douglas Co., Ann Arbor; (D) Hackedorn Contracting Co., Indianapolis, (1) $60,958, (2) $59,856; Candler Dock and Dredge Co., Detroit, (1) $66,401, (2) $64,565; W. S. Newhall Co., Cleveland, (1) $68,227, (2) $66,697. The item bids of the 3 lowest bidders were as follows:

	A	B	C
1,312 cu.yd. excavation below 760 ft	$2.88	$5.00	$6.50
3,842 cu.yd. excavation above 760 ft	.60	2.50	1.00
1,717 cu.yd. concrete in piers and abuttments	7.80	7.50	11.40
67 cu.yd. concrete in wing walls	14.75	9.50	18.00
1,035 cu.yd. concrete in arches	24.70	16.50	19.15
92 cu.yd concrete in spandrel walls	18.85	20.00	25.00
18 cu.yd. concrete curbing	18.00	10.00	12.00
5,615 sq.ft. sidewalk	.12	.12	.15
477 lin.ft. railing	2.40	2.50	3.00
612 sq.yd. brick pavement	2.10	2.50	2.50
Lighting system (lump sum)	1,050.00	1,500.00	1,045.00
Roadway drainage (lump sum)	120.00	150.00	250.00
Removing old bridge (additional)			50.00
Removing old bridge (deduction)	700.00	200.00	
Extended totals with roadway paving	$51,661	$53,623	$60,734
Extended totals without roadway paving	50,376	52,093	59,204

RESERVOIR, ST. PAUL, MINN.

Bids were received by city for high service reservoir on Dale St. from (A) G. J. Grant Construction Co., 902 New York Life Bldg., St. Paul (awarded contract); (B) Winston Bros. Co., Wabash and Clifford St., St. Paul; (C) W. P. Cowles, 616 Flour Exchange, St. Paul; (D) Siems, Helmers & Schaffner, $266,520; (E) Thornton Bros Co., $267,863; (F) W. S. Hoy Co., $275,878. The item bids of the 3 lowest bidders were as follows:

	A	B	C
4½ acres clearing and grubbing	$80.00	$120.00	$49.00
90,620 cu.yd. earth excavation	.24	.29	.294
14,500 cu.yd. clay blanket under reservoir	.80	.81	.80
10,552 ton mi. sprinkling and rolling foundations and embankments	.30	.62	.39½
1,700 cu.yd. backfilling outside of walls	.80	1.10	1.22
99,800 cu.yd. earth embankments and fill over structures	.52	.70	.39½
4½ acres seeding	35.00	50.00	62.55
12,800 sq.yd. sodding	.25	.23½	.22
4,633 cu.yd. concrete inverted groined arch floor 1:2:4	4.52	5.90	5.64
3,831 cu.yd. concrete groined cloistered and barrel arch roof	9.67	5.90	10.88
2,580 cu.yd. concrete flat slab footings for outside walls	4.79	5.90	4.66
3,049 cu.yd. concrete outside wall-slabs and buttresses	7.72	5.90	8.46
2,734 cu.yd. concrete division or center wall	5.52	5.90	6.14
1,503 cu.yd. concrete columns	12.60	5.90	12.55
317 cu.yd. concrete conduits and sumps	11.63	5.90	9.81
617 cu.yd. concrete inlet and outlet gate chambers and aerator	9.07	5.90	10.18
95 sq.yd. concrete special finishing on floors	1.00	.58	.80
Steel reinforcement, ⅝-in. rods	.....	.....	.....
27,567 steel reinforcement, ½-in. rods		.01	.0092
154,383 lb. steel reinforcement, ⅜-in. rods		.01	.0092
579,332 lb. steel reinforcement, ¼-in. rods	.007½	.01	.0089
124,267 lb. steel reinforcement, ⅛-in. rods		.01	.0088
204,380 lb. steel reinforcement, 1-in. rods		.01	.0086½
16,510 lb. miscellaneous steel and wrought iron work—iron 3,871 lb., steel 12,640 lb.	.13	.16	.104
650 lin.ft. copper and asphalt exp. lb. copper	.64	.779	.82
19,300 lin.ft. wooden expansion joints in footings, etc	.06	.035	.068
8 setting 48-in. circular flanged sluice gates	50.00	30.00	46.60
2 setting 48x48-in. spigot in concrete sluice gates	50.00	34.00	49.00
6 setting 48-in. double hub gate valves	62.00	9.50	73.60
8 setting 24-in. flanged gate valves	30.00	5.00	22.10
4 setting 6-in. double hub gate valves	10.00	2.50	5.00
1 ton spec. laying and erecting c.-i. pipe and 5 tons pipe specials, 6-in. to 20-in. diameter, inclusive	20.00	9.50	11.00
	12.00	9.50	11.00
37 tons spec. laying and erecting c.-i. pipe and 105 tons pipe specials, 24-in. to 48-in. diameter, included	12.50	7.00	9.80
	10.00	7.00	8.00
1 ton furnish and erecting c.-i. stop plank grooves	162.00	175.00	122.65
6,250 lb. furnish and erecting miscellaneous castings	.10	.13	.11
Extended totals	$246,054	$251,320	$254,091

Alaska Engineering Commission has established a branch office in Portland, Oregon, in the Customs House Building. Mr. J. J. Hittinger will be in charge of the new office.

Blaw Steel Construction Company announces the opening of their Boston office at 6 Beacon Street, Room 606. The office will be under the charge of Irving Burrows, who was formerly with their New York sales department.

Edelen and Company, a firm formed by T. J. Stone Edelen who was formerly with the Edelen Kilvert Company of Winnipeg, and John A. Conboy lately with the Standard Supply and Equipment Company have opened offices in the Commercial Trust Bldg., Philadelphia, Pa. This firm has the agency for the Red Concrete Mixers of the Chain Belt Company of Milwaukee, Wis.

Muller and Phipps (Asia) Limited, with headquarters at Englewood, N. J., have opened offices in Singaport, Strait Settlements, under the name of Muller, Phipps and Sellers, Limited, with H. A. Sellers, managing director.

Portland Cement Association has recently opened an office in the Northern Bank and Trust Building, Seattle, Wash., with C. N. Reitze in charge as district engineer.

L. S. Shaw & Company has been formed to deal in power-plant equipment, with offices in the Dime Bank Building, Detroit, Mich. Mr. L. S. Shaw, who heads the new firm, has had 15 years' experience in power-plant design, construction and equipment.

The General Machinery and Equipment Company, Ltd., recently opened offices in the Birks Building in Vancouver, B. C. The firm will handle a general line of contractors' and mining equipment along with railway supplies. Mr. J. MacKenzie is managing director of the concern.

The Traylor Engineering and Manufacturing Company, of Salt Lake City, Utah, has opened offices at Spokane, Wash., with C. H. Abeling, sales engineer and at El Paso, Tex., with Robert M. Peabody, sales engineer.

Troy trailers manufactured by the **Troy Wagon Works Company** and Kelly trucks have been adopted by the United States Circus Corporation to transport its show through New England, the East and the Middle West, this summer.

The Washington Pipe and Foundry Company, Tacoma, Wash., who manufacture machine banded and continuous wooden-stave pipe for water-works and power plants, have opened an office in the Woolworth Building, New York City.

The Westinghouse Electric and Maufacturing Company has purchased a plot of ground embracing 500 acres at Essington, near Philadelphia, Pa., on which will be constructed two large machine shops, an erecting shop for heavy machinery, forge shop, pattern and pattern-storage shop and power hourse, where will be employed several thousand people. The initial development will cost in the neighborhood of $5,000,000 or $6,000,000.

WAREHOUSE, HOUSTON, TEX.

Bids were received by City Council for warehouse from (A) AMERICAN CONSTRUCTION CO., Houston (awarded contract); (B) Holmboe Co., Oklahoma; (C) Horton & Horton; (D) W. L. Pearson & Co., Houston, $294,016; (E) H. G. Gass, Houston, $271,242. The item bids of the 3 lowest bidders were as follows:

	A	B	C
Building comp., less exc. (lump sum)	$247,000.00	$257,090.00	$254,284.00
4,000 cu.yd. excavation, Class 1	.30	.22	.22
6,000 cu.yd. excavation, Class 2	1.00	.49	.70
1,000 cu.yd. loading excavation material on cars	.15	.15	.10
400 lin.ft. 20-ft. concrete piles	1.00	1.25	.75
250 lin.ft. 25-ft. concrete piles	1.00	1.25	.75
250 lin.ft. 28-ft. concrete piles	1.00	1.25	.75
300 lin.ft. 30-ft. concrete piles	1.00	1.25	.75
10 cu.yd. extra concrete, Class 1	6.50	5.55	7.50
10 cu.yd. extra concrete, Class 2	7.00	5.65	8.50
10 cu.yd. extra concrete, Class 3	7.50	5.95	9.00
10 cu.yd. extra concrete, Class 4	7.25	5.80	9.50
10 cu.yd. extra concrete, Class 5	7.75	6.50	10.50
10 cu.yd. extra concrete, Class 6	10.50	8.65	12.50
10,000 lb. extra billet steel	.045	.04	.045
10,000 lb. rerolled steel in place	.041	.038	.04
2,000 lb. cast iron in place	.05	.0475	.06
2,000 lb. sundry iron, bolts, etc	.07	.05	.10
1,000 sq.ft. extra floor finish in place	.04	.032	.06
1,000 sq.ft. extra forms walls in place	.075	.05	.10
1,000 sq.ft. extra forms, beams and girders	.08	.08	.12
1,000 sq.ft. extra forms columns	.08	.09	.08
1 M extra dry pressed brick	25.00	35.00	22.00
10 square extra roofing in place	4.00	4.00	4.00
500 lb. extra flashing in place	.15	.15	.15
1 M b.m. extra dimen. lbr. in place	35.00	35.00	40.00
1,000 lb. extra metal lath in place	.12	.05	.12
5 square extra plastering concrete in place	5.50	6.60	7.00
100 lin.ft. extra corner beads in place	.10	.045	.10
100 lin.ft. extra c.-i. water pipe, 4-in., in place	.78	.75	.75
100 lin.ft. extra c.-i. water pipe, 6-in., in place	1.10	.90	1.10
100 lin.ft. extra c.-i. water pipe, 8-in., in place	1.50	1.20	1.60
100 lin.ft. extra galvanized w.i. water pipe, 1½-in., in place	.32	.28	.30
100 lin.ft. extra galvanized w.i. water pipe, 2-in., in place	.42	.40	.40
100 lin.ft. extra galvanized w.i. water pipe, 3-in. in place	.85	.80	.80
100 lin.ft. extra cast iron soil pipe, 6-in., in place	.60	.45	.55
100 lin.ft. extra cast iron soil pipe, 4-in., in place	.45	.35	.42
100 lin.ft. extra sewer pipe in place, 6-in.	.25	.19	.18
100 lin.ft. extra sewer pipe in place, 8-in.	.34	.29	.28
100 lin.ft. extra sewer pipe in place, 10-in.	.44	.38	.38
100 lin.ft. extra sewer pipe in place, 12-in.	.55	.49	.50
100 lin.ft. extra sewer pipe in place, 15-in.	.90	.74	.79
100 lin.ft. extra sewer pipe in place, 18-in.	1.10	1.00	1.05
100 lin.ft. extra sewer pipe in place, 24-in.	1.90	1.80	1.80
5 extra type "B" inlet	23.00	30.00	22.50
1,000 man-hour extra labor unskilled	.30	.27	.40
1,000 man-hour extra labor carpenters	.70	.65	.65
100 man-hour extra labor struct. iron workers	.75	.65	.60
100 man-hour extra labor, plasters	1.00	.90	1.10
100 man-hour extra labor, bricklayers	1.00	.90	1.10
1,000 man-hour extra labor, painters	.65	.60	.565
1,000 man-hour extra labor, electricians	.70	.70	.90
1,000 team-hour extra team hours	.60	.55	.50
500 lin.ft. extra branch circuit complete	.22	.20	.20
10 extra ceiling outlet boxes	.60	.55	.65
40 extra bracket outlet boxes	.60	.55	.65
10 extra switch boxes	.70	.55	.75
10 extra circuit connections comp	10.00	10.50	11.10
Extended totals	$262,490	$268,883	$267,582

Bacharach Industrial Instrument Co. has removed its business from 14 Wood St. to 422 1st Ave., Pittsburgh, Pa.

Edison Portland Cement Co., 1133 Broadway, New York, N. Y., has removed its general offices to 8 West 40th St., New York.

George L. Hammons, Inc., engineers' supplies, factory equipment, etc., has opened an office and salesroom at 627 Washington Blvd., Chicago, Ill. The company will handle a line of specialties for the engineering trade and act as special representatives of the U. S. Asbestos Co. in Chicago.

The Canadian Railway Department is making considerable increases in the rolling stock of the government railways, 88 locomotives having so far been secured or ordered this year. The Canadian Locomotive Works of Kingston has delivered 30 heavy Mikado freight locomotives and has been awarded a contract for 20 more of the same type at $39,000 each, which is about double the price paid before the war. Ten Santa Fe mogul locomotives were also purchased at $36,486 each, delivered in bond at at Montreal and 28 second-hand engines have been secured from Transcontinental Ry. contractors.

"Preparedness Note"—The only large contract placed by the Navy Department this week was that for 100 submarine nets, awarded to the American Steel and Wire Co. at $188,100. Bids were received for the unpurchased balance of the 200 patrol boats (submarine chasers) from 129 different shipbuilding companies, with prices ranging from $20,000 to $80,000. Most of the bidders bid on four boats or less, only one bidder, the Peninsula Lumber Co., of Portland, Ore., bidding on a large number, in this case 140 boats at $60,000 each. A number of bids were received on the basis of cost plus a percentage ranging from 10 to 20%. It is probable that the Navy will be able to purchase as many boats as it needs from the various bidders on this contract.